

# DERWENT WORLD PATENTS INDEX<sup>®</sup> (DWPI<sup>SM</sup>)

CPI MANUAL CODES

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Contents

INTRODUCTION .....	1	K: NUCLEONICS, EXPLOSIVES, PROTECTION .....	257
A: PLASDOC .....	7	L: GLASS, CERAMICS, ELECTRO(IN)ORGANICS .....	263
B: FARMDOC .....	51	M: METALLURGY .....	285
C: AGDOC .....	103	N: CATALYSTS .....	301
D: FOOD, FERMENTATION, DISINFECTANTS, DETERGENTS .....	157	APPENDIX 1: NANOTECHNOLOGY .....	309
E: CHEMDOC .....	181	APPENDIX 2: GREEN TECHNOLOGY .....	313
F: TEXTILES, PAPER, CELLULOSE .....	215	APPENDIX 3: GENETIC ENGINEERING .....	321
G: PRINTING, COATING, PHOTOGRAPHIC .....	227	CPI INDEX .....	337
H: PETROLEUM .....	237		
J: CHEMICAL ENGINEERING .....	247		



# CPI Manual Codes

## Introduction

Thomson Reuters Manual Codes have been developed over a period of more than 35 years, having been first introduced in 1963 when they were applied to patent references of the Farmdoc Service. Subsequently, this service has been renamed Section B and incorporated into the Chemical Patents Index (CPI).

As other areas of technology were introduced, new Manual Codes were developed. For example, codes for agricultural patents - Section C (1965), plastics and polymer patents - Section A (1966) and for the remaining sections of CPI in 1970.

Codes are applied to the inventive/significant features of the invention using the Documentation Abstract as the source document. The codes are assigned by teams of Thomson Reuters analysts who have been specially trained in the application of these codes. The analysts have specialist knowledge in each of the areas of technology with which they are concerned.

## About this user guide

This manual is divided into 2 parts. The first part is a list of manual codes in code order, with definitions, by section beginning with Section A and running through each of the Thomson Reuters CPI sections to M.

A	Polymers, Plastics	Plasdoc
B	Pharmaceuticals	Farmdoc
C	Agricultural Chemicals	Agdoc
D	Food, Disinfectants, Detergents	
E	General Chemicals	Chemdoc
F	Textiles, Paper	
G	Printing, Coating, Photographic	
H	Petroleum	
J	Chemical Engineering	
K	Nucleonics, Explosives, Protection	
L	Refractories, Glass, Ceramics	
M	Metallurgy	

The second part of this manual is a list of terms in alphabetical order together with the appropriate code(s).

In order to select codes, the alphabetical list should be consulted first of all. Once a code or a group of codes has been identified, it is necessary to check the context of the code(s) and to take note of any special notes or conventions by looking in the code order list.

Manual codes are arranged in hierarchies where there is a broad or general code at the top of the hierarchy followed by sub-divisions of the code into more and more specific categories which may have been introduced over a period of time.

When selecting codes, it is necessary to take into account any broader codes which may have been in use in previous years. If the codes are to be used in online searches then truncation can be used to take the broader codes into account. The different levels in each hierarchy are indicated in this manual by an increasing number of dots, e.g. ., ..

Some code definitions have an indication of a year, e.g. 1994, in the entry. This indicates the time at which the code was introduced. Those without a year indicated are valid from the beginning of the coverage for that section. Scope notes are given for some codes and should be taken into account when selecting codes. Those notes which apply to a group of codes are given at the head of the group.

## Format of the Codes

The format of the code is based firstly on the Section letter, e.g. A for Section A, B for Section B, etc., and then a series of alphanumerics as exemplified below:

```
A01
A01-A
A01-A00A
A01-A01
A01-A01A
A01-A01A1
```

The codes can be searched using online strategies or by using the Thomson Reuters Manual Code cards (for customers who retain these collections). The format for online searching is exactly as the codes appear in this manual. Codes on Manual Code cards appear in a slightly different format which is that without "leading zeros". For example, the code B06-D01 would appear on the card as B6-D1. Codes are also displayed in a similar way in Documentation Abstracts.

## Searching codes online

Manual codes can be searched online in the Derwent World Patents Index\* on each of the host systems - Dialog, STN and Questel.Orbit.

Various other search parameters can be combined with manual codes, e.g. International Patent Classifications (IPCs taken from the front page of the patent specification), Derwent Class, and of course, free text.

There are several advantages in using manual codes. The fact that they are applied by specialist teams of analysts at Thomson Reuters means that the codes are applied in a consistent manner. Also, the need to search all possible synonyms and spellings of the topic of interest is avoided by the use of a coding system.

## Online search example

Searching for dental equipment in the Thomson Reuters Class P32 covers dentistry and bandages so that the references retrieved just by searching on the Class will have a number of irrelevant references to bandages. However, the appropriate manual code D08-A04 (valid since 1986) will search on dental equipment only. Using Dialog as the host:

```
? s dc=p32 and dw=(1996:1999)
Processing
Processing
79025      DC=P32  (Dentistry- bandages, veterinary,
prostheses)
2076192    DW=1996 : DW=1999
S1         23043    DC=P32 AND DW=(1996:1999)
? t s1/ti/1-3

1/TI/1
DIALOG(R)File 351:(c) 2005 THE THOMSON CORPORATION. All rts. reserv.
Pigmented adhesive composition for laminating an adsorbent paper
product -e.g.. paper towels, prepared by energising one ionic resin
component before adding other components to give a stable composition

1/TI/2
DIALOG(R)File 351:(c) 2005 THE THOMSON CORPORATION. All rts. reserv.
```

Removal of a bio-polymer construct from a support - by reducing adhesion or applying a separating force to the interface.

1/TI/3

DIALOG(R)File 351:(c) 2005 THE THOMSON CORPORATION. All rts. reserv.

Inserting method a wire frame structure into the body - involves series of wire hoops longitudinally aligned in parallel planes with successive hoops joined by struts providing insertion into body using catheter which release frame structure

Looking at the titles above from searching P32, we can see that the kind of reference obtained is not relevant to dental equipment.

? s s1 and mc=d08-a04

23043 S1

352 MC=D08-A04

S2 82 S1 AND MC=D08-A04

? t s2/ti/1-3

2/TI/1

DIALOG(R)File 351:(c) 2005 THE THOMSON CORPORATION. All rts. reserv.

Dental dam support and method of use - adequately stabilises a dental dam support which may be mounted on a tooth and/or gingiva only, and maintains a fluid seal.

2/TI/2

DIALOG(R)File 351:(c) 2005 THE THOMSON CORPORATION. All rts. reserv.

Dental potentiometric test equipment - for determining condition of metallic dental crown or bridge

2/TI/3

DIALOG(R)File 351:(c) 2005 THE THOMSON CORPORATION. All rts. reserv.

Titanium nitride covered spatula with polyfunctional shaft - for aesthetic dental rebuilding processes

Looking at the titles above, which are all relevant, highlights the benefits of using CPI Manual Codes.

## Section N - Catalyst Codes

In the various Manual Code products (online records, documentation abstracts), there will appear from time to time some N manual codes. These codes can be derived from any CPI Section (A through to M).

N manual codes have been applied to sections E, H and J from Thomson Reuters Week 197701.

From 197901, coverage was extended to Sections B, C, D, E and L

N codes are not applied to Section A, F and G

Section N is not a true Thomson Reuters Section but is in fact one of the CPI profiles (No. 21).

Chemical Codes (including Thomson Reuters Chemistry Resource and DWPI-Markush)

Chemical Fragmentation Codes, graphics indexing and Thomson Reuters Registry Numbers are applied to concepts in patents covered by Section B, C and E of CPI. They allow precise searches not only of specific compounds, but also for "Markush" structures which can represent literally millions of compounds.

These indexing methods provide the most comprehensive retrieval systems offered by Thomson Reuters for searching patents, and they involve complete coverage of claims and examples. The use of Manual Codes in conjunction with these is useful in the following cases:

- Because of the high frequency of application of some Fragmentation Codes, the number of results is sometimes very high. The Manual Codes can be used in these cases to separate out those of higher relevance (using AND).
- Improved precision is obtainable using a Manual Code where its definition of a concept is more precise than that of the Fragmentation Code.

## Plasdoc Codes/Polymer Indexing

The Plasdoc Codes and Polymer Indexing system allow precise searches to be carried out, with high recall, of subject matter belonging to Section A of CPI. The codes represent repeating units of polymers, functional groups, elements, properties, forming processes, modification processes or products and uses of polymers.

The Plasdoc Code has been considerably refined over the years and now Polymer Indexing (since the end of 1993) allows for more specific searching by using linking groups: each separate polymer concept and its associated terms being contained within a linking group.

As with Chemical Codes, the Plasdoc Codes and Polymer Indexing may be used in conjunction with Manual Codes to give a higher relevance and precision to your answer sets.

Products featuring Manual Codes

## Documentation Abstracts

Each Documentation Abstract carries all the Manual Codes assigned in a box at the top right-hand half of the abstract. The codes for each section are grouped together in parentheses with the initial letter removed and placed at the front outside the parentheses.

For example:

B(4-C2E3, 12-M1D)

represents

B04-C2E3 and B12-M1D

(As explained under the heading Format, codes in the printed products are abbreviated by omitting zeros.)

In the case of abstracts assigned to both Sections B and C, the codes are combined as follows:

BC(4-C3, 12-M10B, 12-M11D)

represents

B04-C03, B12-M10B, B12-M11D, and

C04-C03, C12-M10B, C12-M11D

## Images of Documentation Abstracts on CD-ROM (Derpict)

This CD-ROM based product contains images of the Documentation Abstracts and is now searchable using the Manual Codes.







# A:

## PLASDOC

A01	Monomers, Condensants
A02	Polymerisation Controllers
A03	Natural Polymers
A04	Addition Polymers
A05	Condensation
A06	Inorganic Polymers
A07	Polymer, Blends, Aqueous Dispersions
A08	Additives
A09	Properties, Analysis, Testing, Control
A10	Polymerisation, Polymer Modification
A11	Processing Polymers including Equipment
A12	Polymer Applications



## A: PLASDOC

Code commenced 1966 (Accession. Number. 60,001P)

### Main Headings

- A01: Monomers, condensants
- A02: Polymerisation controllers
- A03: Natural polymers
- A04: Addition polymers
- A05: Condensation polymers
- A06: Inorganic polymers
- A07: Polymer blends; aqueous dispersions
- A08: Additives
- A09: Properties, analysis, testing, control
- A10: Polymerisation; polymer modification
- A11: Processing polymers including equipment
- A12: Polymer applications

### Scope

All polymers and their related concepts are retrievable using one or more of the above sections. The code is hierarchical in structure so that both generic and specific searching can be carried out.

The polymer-related subject matter only is retrievable using the manual codes. For e.g. a reference to extrusion of aluminium tubes using a polymeric lubricant, the codes for extrusion and the tubes are not assigned. The use of polymer (as lubricants and in metallurgy) is searchable.

### Indexing approach

The coding is based on the Derwent documentation abstract (the specification only being consulted when the information to hand is too vague or is ambiguous). One or more codes are applied to cover only the main inventive features of the invention. There is no set upper limit to the number of codes assigned.

### Coding rules

The coding is carried out generally according to the following rules:-

1. For a novel polymer composition, which can be used in a wide range of applications, then only the composition is coded.
2. For a novel polymerisation catalyst, the corresponding polymerisation process is not coded. However the products, i.e. the polymers produced, are coded.
3. Where a particular process, additive or catalyst is disclosed for specific polymer(s), then both the feature and the polymer(s) are coded e.g. in a reference heat stabiliser for PVC, both concepts are coded.
4. Where a novel additive can be used for a range of alternative polymers e.g. an azo dye for cellulose

acetate, polyamide and polyester etc.; then the dye only is coded.

5. For a polymeric additive or catalyst/controller, the polymer blend code is not applied. The additive should be searched in the polymer section and in the appropriate additive sections. However, the catalyst/controller can be searched in the appropriate catalyst section, polymer section and as A12-W11K.
6. Properties of polymers are only coded if they are of exceptional importance. As examples, properties are coded for high impact polymers, polymers of improved dyeability.
7. References to modified polymers are only coded in A10-E: section. The polymer from A03: to A06: sections is only coded if the process of modification is described.
8. Where a large number of specific concepts belonging to a section are described, then the generic code only of that section is applied e.g. if polyethylene, polypropylene, polybutene-1 and EPDM are codable in an abstract then only A04-G01+ is applied. Therefore, for complete retrieval of a specific concept, both the specific and the generic code should be searched.
9. Prepolymers or intermediates for polymers are conventionally coded as polymers e.g. ethylene glycol terephthalate (A05-E04+), bisphenol A diglycidyl ether (A05-A02), polyurethane prepolymers (A05-G+), polyamic acids (A05-J01+).

### Online retrieval

Since the codes are assigned only to the main inventive features, a search will result in hits of high relevance. For complete recall, fragmentation code searching is recommended.

The manual codes can then be used to (i) limit the hits to those of high relevance or (ii) to divide the hits from a fragmentation code search into those of high and those of low relevance, when the number of hits obtained is unacceptably large.

Because a generic code only of a section is applied for a large number of specific concept(s) belonging to that section, the ORing of the generic and the specific code(s) is recommended for complete retrieval.

### Time ranging

The code has been improved by addition of manual codes during pre-CPI year range (from the Accession Number range 80,000P), and at the beginning of the Accession years 1970, 1977, 1986 and 1994.

Where the coding for a concept had undergone alterations, then for precise retrieval, use may be made of the searchable field Accession Year (or Entry Year) (see Derwent World Patents Index user guides) to restrict the use of the appropriate code to the time period during which it is valid.

## A01 MONOMERS, CONDENSANTS

### Coverage

These are also classified in Section E.

All patents relating to the production and purification of the following: acrolein, acrylic acid, acrylonitrile, adipic acid, bisphenol A, butadiene, caprolactam, chloroprene, diethyl or dimethyl terephthalate, ethyl acrylate, ethylene, ethyl methacrylate, formaldehyde, hexamethylene diamine, isobutene, isoprene, maleic anhydride, melamine, methacrylic acid, methyl (meth)acrylate, methyl styrene, 2,6-naphthalene dicarboxylic acid, phenol, phthalic anhydride, propylene, sebacic acid, styrene, terephthalic acid, tetrafluoroethylene, urea, vinyl acetate, vinyl chloride and vinylidene chloride.

All patents relating to the production and purification of new monomers shown clearly to be usefully polymerisable. Purification, stabilisation or new route of production only of all other known usefully polymerisable monomers. Starting materials for monomers are not coded. Also the catalysts and the processes for the production of monomers are not coded.

For polymerisation of a monomer, search the product i.e. polymer only along with polymerisation process (A10: section) if desired.

A01-A	<b>COMPOUNDS CONTAINING THE ELEMENTS OR GROUPS BELOW</b> Including all compounds not covered by A01-B: to A01-E:, but excluding metal salts. Including their production, handling, storage and purification.
A01-A00A	<b>General heteroatom containing</b> Indexed where the polymer former would require three or more codes from the A01-A+ hierarchy.
	1994
A01-A01	<b>Boron containing compounds</b> e.g. borazoles, carboranes
A01-A02	<b>Phosphorus containing compounds</b> e.g. phosphonitrilic halides
A01-A03	<b>Silicon containing compounds</b> e.g. silanes, cyclic siloxanes
A01-A04	<b>Metal containing compounds</b> Including those having a metal-carbon bond e.g. tributyl tin methacrylate (with A01-D08); vinyl ferrocene (with A01-D)
A01-A05	<b>Nitroso group containing compounds</b> e.g. trifluoro-nitrosomethane
A01-A	<b>Others</b> e.g. sulphur dioxide

A01-B	<b>COMPOUNDS CONTAINING POLYMERISABLE C-C BONDS</b> Excluding A01-C:, A01-D:. Including their production, handling, storage and purification.
A01-B00B	<b>General C-C bond</b> Indexed where the polymer former would require three or more codes from the A01-B+ hierarchy.
	1994
A01-B01	<b>Compounds containing both C-C double and C-C triple bonds</b> e.g. vinyl acetylene, dimethyl vinyl ethynyl carbinol
A01-B02	<b>Compounds containing C-C triple bond(s) only</b> e.g. acetylene, propargyl alcohol
A01-B03	<b>Compounds containing more than two C-C double bonds</b> e.g. trimethylolpropane triacrylate, diallyl maleate, pentaerythritol tetraacrylate
A01-B04	<b>Petroleum chemicals, general</b> e.g. products resulting from refinery cracking processes
A01-B	<b>Others</b>
A01-C	<b>DIOLEFINIC MONOMERS</b> Including their production, handling, storage and purification
A01-C00C	<b>General diolefinic</b> Indexed where the polymer former would require three or more codes from the A01-C+ hierarchy.
	1994
A01-C01	<b>Aromatic or (cyclo)aliphatic esters</b> e.g. diallyl phthalates
A01-C02	<b>Other aromatic compounds substituted by hetero atoms/groups</b> Excluding A01-C01; e.g. bisphenol A diallylether
A01-C03	<b>Other aromatic compounds optionally substituted by hydrocarbyl groups only</b> e.g. divinylbenzene, divinyl toluene
A01-C04	<b>(Cyclo)aliphatic compounds substituted by hetero atoms/groups</b> Excluding A01-C01; e.g. chloroprene
A01-C05	<b>(Cyclo)aliphatic hydrocarbons optionally substituted by hydrocarbyl groups only</b> Excluding A01-B04; e.g. butadiene, isoprene, allene, dicyclopentadiene, piperylene.
A01-C06	<b>Bismaleimides</b>
	1994
A01-C	<b>Others</b>

<b>A01-D</b>	<b>MONOOLEFINIC MONOMERS</b> Including their production, handling, storage and purification	<b>A01-D12</b>	<b>(Cyclo)aliphatic halides</b> Including acid halides; e.g. vinyl(idene) chloride; tetrafluoroethylene; fluoroacrylates (with A01-D10)
<b>A01-D00D</b>	<b>General monoolefinic</b> Indexed where the polymer former would require three or more codes from the A01-D+ hierarchy.	<b>A01-D13</b>	<b>(Cyclo)aliphatic hydrocarbons</b> Excluding A01-B04; e.g. olefins such as ethylene, propylene, diisobutylene; norbornene
<b>A01-D01</b>	<b>Heterocyclics containing nuclear N</b> e.g. vinyl pyridine, vinyl carbazoles, maleimide	<b>A01-D</b>	<b>Others</b> e.g. vinyl silanes (with A01-A03); vinyl phosphonic acid (with A01-A02); allyl sulphonic acid; vinyl ferrocene (with A01-A04); vinyl thioethers
<b>A01-D02</b>	<b>Aromatics substituted by hetero atoms/ groups</b> e.g. cinnamic acid, coumarone, vinyl benzene sulphonic acid, chloromethyl styrene, vinyl benzoate	<b>A01-E</b>	<b>CONDENSANTS</b> Including their production, handling, storage and purification
<b>A01-D03</b>	<b>Other aromatics optionally substituted by hydrocarbyl groups only</b> e.g. styrene, alpha-methyl styrene, vinyl toluene, indene	<b>A01-E00E</b>	<b>General condensants</b> Indexed where the polymer former would require three or more codes from the A01-E+ hierarchy.
<b>A01-D04</b>	<b>(Cyclo)aliphatic nitriles</b> e.g. acrylonitrile; cyanoacrylic acid (with A01-D08); cyanoacrylates (with A01-D10); vinylidene cyanide	<b>A01-E01</b>	<b>Triazines</b> e.g. melamine, guanamine
<b>A01-D05</b>	<b>(Cyclo)aliphatic aldehydes or ketones</b> e.g. acrolein; diacetone acrylamide (with A01-D06)	<b>A01-E02</b>	<b>Iso(thio)cyanates</b> e.g. toluene diisocyanate, isophorone diisocyanate. For blocking agents see A02-C
<b>A01-D06</b>	<b>(Cyclo)aliphatic amides</b> e.g. acrylamide; diacetone acrylamide (with A01-D05)	<b>A01-E03</b>	<b>Amides</b> Including urea. For lactams see A01-E04
<b>A01-D07</b>	<b>N-contg. generics and others</b> Excluding A01-D01, A01-D04, A01-D06; e.g. aminoalkyl acrylates (with A01-D10)	<b>A01-E04</b>	<b>Lactams; amino acids</b> e.g. caprolactam, aminocaproic acid, glutamic acid
<b>A01-D08</b>	<b>(Cyclo)aliphatic carboxylic acids, anhydrides or salts</b> e.g. acrylic acid; maleic anhydride (with A01-E12); cyanoacrylic acid (with A01-D04); including acrylic anhydrides	<b>A01-E05</b>	<b>Amines</b> Excluding A01-E01; e.g. aniline, hexamethylene diamine, hexamethylene tetramine, piperidine, ethylene imine. Used for nitriles together with A01-E11 or A01-E12 as appropriate e.g. for adiponitrile search A01-E05 and A01-E12
<b>A01-D09</b>	<b>(Cyclo)aliphatic alcohols</b> e.g. allyl alcohol	<b>A01-E06</b>	<b>Other N-containing</b> Excluding A01-E01 to A01-E05; e.g. oxazoli(di)nes, oxazines, benzimidazoles
<b>A01-D10</b>	<b>(Cyclo)aliphatic carboxylic esters, general</b> e.g. methyl methacrylate; vinyl acetate; dibutyl maleate (with A01-E12); aminoalkyl acrylates (with A01-D07); cyanoacrylates (with A01-D04)	<b>A01-E07</b>	<b>Mono-epoxy compounds</b> e.g. epihalohydrin; ethylene oxide; monoglycidyl ether/ester; glycidol (with A01-E14); and thiiranes (episulphides)
<b>A01-D10A</b>	<b>Vinyl esters</b> e.g. vinyl acetate	<b>A01-E08</b>	<b>Cyclic (thio)ethers</b> Excluding A01-E07; e.g. tetrahydrofuran (THF), oxetanes
<b>A01-D10B</b>	<b>(Meth)acrylic esters</b> e.g. methyl (meth)acrylate	<b>A01-E09</b>	<b>Formaldehyde</b> Including trioxane, tetraoxane
<b>A01-D11</b>	<b>(Cyclo)aliphatic ethers</b> Excluding vinyl thioethers for which see A01-D; e.g. methyl vinyl ether	<b>A01-E10</b>	<b>Aldehydes; ketones</b> Excluding A01-E09; e.g. acetaldehyde, furfural, acetone, ketenes

A01-E11	<b>Aromatic carboxylic acids, acid halides, anhydrides or esters</b> e.g. phthalic (iso-, ortho- and tere-), trimellitic, pyromellitic
A01-E12	<b>(Cyclo)aliphatic carboxylic acids, acid halides, anhydrides or esters</b> e.g. adipoyl chloride; sebacic acid; maleic anhydride (with A01-D08); bishaloformates
A01-E13	<b>Phenols</b> Including monohydric and polyhydric e.g. phenol, cresols, resorcinol, bisphenol A
A01-E14	<b>Alcohols</b> Including dihydric and polyhydric e.g. ethylene glycol, pentaerythritol, cyclohexane dimethanol
A01-E	<b>Others</b> e.g. heterocyclic acids; for lactones see A01-E14 and A01-E11 or A01-E12 as appropriate. Similarly for other condensants containing functionally dissimilar groups e.g. diethanolamine see A01-E05 and A01-E14

A01-F	<b>INTERMEDIATES WHERE THE FINAL MONOMER IS UNKNOWN</b>	1994
-------	---	------

A01-F	<b>Intermediates where the final monomer is unknown</b>	1994
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## A02 POLYMERISATION CONTROLLERS

The use of this section is restricted to polymerisation only. Catalysts used for crosslinking, although often referred to as polymerisation catalysts, are coded as accelerators as appropriate (see A08-C: or A08-D: section). For catalyst recovery/removal from polymer, and for catalyst destruction see A10-G+. Catalysts for processes other than polymerisation, such as production of monomer, condensant or additive, for crosslinking or for polymer modification, are not coded.

A02-A	<b>CATALYSTS AND ACTIVATORS</b> Excluding catalysts and activators for any purpose other than polymerisation, e.g. production of monomers, condensants or additives, for crosslinking or for polymer modification.
A02-A00A	<b>General catalyst</b> Indexed where three or more codes would be required from the A02-A+ hierarchy. Also indexed for unspecified catalysts.

1994

A02-A01	<b>Peroxides, persalts</b> e.g. potassium persulphate, hydrogen peroxide etc.; including hydroperoxides, oxygen; excluding Redox (see A02-A03).
A02-A02	<b>Azo compounds</b> e.g. azobisisobutyronitrile; including hyponitrites
A02-A03	<b>Free radical, general and others</b> Excluding A02-A01, A02-A02. Including components of Redox catalysts e.g. ammonium persulphate and ferrous sulphate; ceric ammonium nitrate.
A02-A04	<b>Friedel Crafts</b> Including Lewis acids, e.g. BF3 (etherate), AlCl3, SnCl4, TiCl4 (used without an activator), FeCl3, H2SO4, HF, H3PO4.
A02-A05	<b>Alfin</b> e.g. mixture of allyl sodium, sodium isopropoxide and sodium chloride.
A02-A06	<b>Transition metal (or compound)</b> Excluding A02-A06A to A02-A06D. All transition metal (or compound) containing compositions are searchable in A02-A06 or subdivisions thereof; if the compositions further contains a novel non- transition metal (compound) component, see also A02-A07A or A02-A10. Transition metal compounds in Free radical or Friedel Crafts systems are searchable in this section (search A02-A01 to A02-A05 appropriately). Transition metals are: Ag, Au, Co, Cr, Cu, Fe, Hf, Ir, Mn, Mo, Nb, Ni, Os, Pd, Pt, Re, Rh, Ru, Sc, Ta, Tc, Ti, V, W, Y, Zr and the actinides and lanthanides.



A02-A06A	. <b>Oxides</b> e.g. CrO <sub>3</sub> . Prior to 1970 see A02-A06. 1970	A02-A10	<b>Non-metallic activators for transition metal type catalysts</b> Only when novelty; e.g. amines, esters, P compounds. Prior to 1970 see A02-A06. 1970
A02-A06B	. <b>(Oxy)halides</b> With no other substitution(s). e.g. TiCl <sub>3</sub> , VOCl <sub>3</sub> . Prior to 1970 see A02-A06. 1970	A02-A11	<b>Phosphorus containing</b> Excluding A02-A01 to A02-A10. Prior to 1977 see A02-A. 1977
A02-A06C	. <b>Also containing organo-Aluminium compounds</b> Excluding A02-A06A, A02-A06B; e.g. Ti(OiBu) <sub>4</sub> with Et <sub>3</sub> Al. Prior to 1977 see A02-A06, A02-A06A and A02-A06B. 1977	A02-A12	<b>Biocatalyst eg enzymes</b> 2002
A02-A06D	. <b>Containing Cr, Hf, Mn, Mo, Nb, Ta, Ti, V, W or Zr only</b> Excluding A02-A06A to A02-A06C; e.g. Ti(OiBu) <sub>4</sub> . Prior to 1977 see A02-A06, A02-A06A and A02-A06B. 1977	A02-A	<b>Others</b> e.g. t-amines.
A02-A06E	. <b>Metallocenes, general</b> Excludes A02-A06D. See also A02-A06C. <i>Previous code(s): A02-A06+</i> 1994	A02-B	<b>CHAIN TRANSFER AGENTS, REGULATORS, MODIFIERS, TELOGENS, CHAIN COUPLERS</b>
A02-A06E1	.. <b>Containing Ti, Zr or Hf.</b> Excluding A02-A06D. See also A02-A06C. <i>Previous code(s): A02-A06+</i> 1994	A02-B	<b>Chain transfer agents, regulators, modifiers, telogens, chain couplers</b> e.g. H <sub>2</sub> in olefin polymerisation, SiCl <sub>4</sub> , oxazolines.
A02-A06E2	.. <b>Containing other Transition metal.</b> Excludes A02-A06D. See also A02-A06C. <i>Previous code(s): A02-A06+</i> 1994	A02-C	<b>POLYMERISATION INHIBITORS AND CHAIN STOPPERS, BLOCKING AGENTS FOR MONOMERS OR CONDENSANTS</b>
A02-A07	<b>Non-transition metal (compounds)</b> Excluding A02-A01 to A02-A05; including Boron, Si.	A02-C	<b>Polymerisation inhibitors and chain stoppers, blocking agents for monomers or condensants</b> e.g. hydroquinone, phenol; including catalyst deactivators.
A02-A07A	. <b>With transition metal (compound)</b> Only when novelty. Prior to 1970 see A02-A07. 1970	A02-D	<b>OTHER CONTROL MATERIALS</b>
A02-A07B	. <b>Alkali(ne earth) metal containing organic compounds</b> Including salts and complexes e.g. sodium lactamate, butyl lithium; excluding A02-A07A. Prior to 1977 see A02-A07. 1977	A02-D01	<b>Buffers</b>
A02-A07C	. <b>Organoaluminium compounds</b> Excluding when in presence of a transition metal (compound). Prior to 1977 see A02-A07. 1977	A02-D	<b>Catalyst support and others</b> e.g. SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> ; as catalyst supports, seeding agents.
A02-A08	<b>Stereospecific</b> Excluding A02-A06+.		
A02-A09	<b>Photocatalyst</b>		

## A03 NATURAL POLYMERS

Starting natural polymers for the production of cellulose esters and ethers are not coded, see also A10-E: section for the appropriate process involved. This section does not cover wood or the use of cellulose paper making fibres such as wood pulp.

<b>A03-A</b>	<b>POLYSACCHARIDES</b> For chitosan see A10-E09.	
<b>A03-A</b>	<b>Polysaccharides</b> Non-cellulosic e.g. starch, dextran, chitin.	
<b>A03-A00A</b>	. <b>Uses</b> Prior to 1986 see A03-A.	1986
<b>A03-A01</b>	<b>General</b>	
<b>A03-A01A</b>	. <b>Textiles, fibres</b> Prior to 1970 see A03-A01.	1970
<b>A03-A02</b>	<b>Cellulose acetate</b>	
<b>A03-A02A</b>	. <b>Textiles, fibres</b> Prior to 1970 see A03-A02.	1970
<b>A03-A03</b>	<b>Other cellulose esters</b> e.g. cellulose nitrate.	
<b>A03-A04</b>	<b>Cellulose ethers</b> e.g. carboxymethyl cellulose, hydroxyethyl cellulose.	
<b>A03-A04A</b>	. <b>Uses</b> Prior to 1970 see A03-A04.	1970
<b>A03-A04A1</b>	.. <b>Medical, dental, cosmetic, veterinary; food</b> Prior to 1986 see A03-A04A.	1986
<b>A03-A04B</b>	. <b>Preparation of cellulose ethers</b>	2002
<b>A03-A05</b>	<b>Cellulose derivatives and others</b> Including regenerated cellulose e.g. rayon.	
<b>A03-A05A</b>	. <b>Textiles, fibres</b> Prior to 1970 see A03-A05.	1970
<b>A03-B</b>	<b>NATURAL RUBBERS</b>	
<b>A03-B</b>	<b>Natural rubbers</b> including isomers such as balata, gutta percha.	
<b>A03-C</b>	<b>OTHER NATURAL POLYMERS</b>	
<b>A03-C01</b>	<b>Proteinaceous polymers</b> e.g. gelatin, casein, collagen.	
<b>A03-C02</b>	<b>Natural resins or gums, rosin (abietic acid), lignin</b>	
<b>A03-C03</b>	<b>Bituminous plastics</b> e.g. asphalt, lignite. Prior to 1977 see A03-C.	1977

## A03-C04

### Petroleum resins

i.e. low polymers prepared synthetically from mixed unsaturates, typically found in refinery streams - aliphatic olefins, acyclic, cyclic and bicyclic dienes; styrenes and indenenes. Prior to 1977 see A03-C.

1977

## A03-C

### Others

e.g. terpene resins, polymerised drying oils.

## A04 ADDITION POLYMERS

Polymers of the metal salts of olefinically unsaturated acids are coded according to the valency of the metal e.g. see A04-F04+ for sodium acrylate polymer and A04-B for calcium acrylate polymer. A reference to acrylic resin/polymer with no further details is coded A04-F01+. For acrylic fibres see A04-D02+ or A04-D03+ and A12-S05+. For acrylic sheets see A04-F01+, A04-F06+ and A12-S07+. For acrylic paints and coatings see A04-F01A1 and A12-B01+. A polymer belonging to a particular class in section A04: and also falling within the definition of the code A04-A, is assigned both codes e.g. a monoolefinic acrylate (co)polymer containing Sulphur in the repeat unit is assigned appropriate codes A04-F06+ and A04-A.

<b>A04-A</b>	<b>MISCELLANEOUS (CO)POLYMERS</b> Excluding A04-B: to A04-G:.	
<b>A04-A01</b>	<b>Monomers containing both double and triple C-C bonds</b> e.g. vinyl acetylene.	
<b>A04-A02</b>	<b>Monomers containing triple C-C bonds only</b> e.g. acetylene, propargyl alcohol.	
<b>A04-A03</b>	<b>Monomers containing more than two double C-C bonds</b> e.g. trimethylolpropane triacrylate, diallyl maleate, pentaerythritol tetraacrylate, polyallyl sucrose (for Carbopols (RTM) with A04-F04+).	
<b>A04-A04</b>	<b>Monomers containing a nitroso gp.</b> e.g. trifluoronitrosomethane.	
<b>A04-A05</b>	<b>Carbon monoxide copolymers</b>	1994
	<i>Previous code(s): A04-A</i>	
<b>A04-A</b>	<b>Others</b> e.g. unsaturated monomers containing elements other than C, H, O, N and halogen (excluding metal salts of unsaturated carboxylic acids (e.g. sodium acrylate) for which see the corresponding acid) e.g. allyl sulphonic acid, vinyl silanes; or not containing C-C unsaturation. e.g. (SO <sub>2</sub> ).	
<b>A04-B</b>	<b>POLYMERS FROM DIOLEFINIC MONOMERS</b>	
<b>A04-B01</b>	<b>General</b> Applied from the start of Plasdac to the end of 1985 and was then discontinued.	1966-1985
<b>A04-B01A</b>	<b>. Production</b> Prior to 1970 see A04-B01.	1970
<b>A04-B01B</b>	<b>. Compositions</b> Prior to 1986 see A04-B01.	1986
<b>A04-B01C</b>	<b>. Fabrication</b> Prior to 1986 see A04-B01.	1986

<b>A04-B01D</b>	<b>. Treatment</b> Prior to 1986 see A04-B01.	1986
<b>A04-B01E</b>	<b>. Uses</b> Prior to 1986 see A04-B01.	1986
<b>A04-B02</b>	<b>Butadiene homopolymer</b> Including butadiene rubber.	
<b>A04-B02A</b>	<b>. Production</b> Prior to 1970 see A04-B02.	1970
<b>A04-B03</b>	<b>Butadiene with styrene</b> Including SBR.	
<b>A04-B03A</b>	<b>. Production</b> Prior to 1970 see A04-B03.	1970
<b>A04-B04</b>	<b>Butadiene with acrylonitrile</b> Including NBR.	
<b>A04-B05</b>	<b>Butadiene with other monomers</b> Excluding with styrene for which see A04-B03+; with acrylonitrile for which search A04-B04 and ABS for which search A04-C03.	
<b>A04-B06</b>	<b>Isoprene homopolymer</b>	
<b>A04-B07</b>	<b>Isoprene copolymers</b> Excluding butyl rubber for which see A04-G05A.	
<b>A04-B08</b>	<b>Chloroprene (co)polymers</b> e.g. neoprene; including other haloprenes.	
<b>A04-B09</b>	<b>Esters containing 2 non-conjugated C-C double bonds</b> e.g. diallyl phthalates, allyl (meth)acrylate, ethylene glycol bis (allyl carbonate).	
<b>A04-B10</b>	<b>Aromatic diolefinic</b> Excluding A04-B09; e.g. divinyl benzene.	
<b>A04-B11</b>	<b>Bismaleimide (co)polymers.</b>	1994
	<i>Previous code(s): A04-B</i>	
<b>A04-B</b>	<b>Others</b> e.g. dicyclo-pentadiene, piperylene.	
<b>A04-C</b>	<b>POLYMERS FROM (SUBSTITUTED) AROMATIC MONOOLEFINIC MONOMERS</b>	
<b>A04-C01</b>	<b>General</b>	
<b>A04-C01A</b>	<b>. Production, compositions</b> Prior to 1986 see A04-C01.	1986
<b>A04-C02</b>	<b>Styrene homopolymer</b> For expanded polystyrene see A12-S01+ only. Applied during the pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.	1966-1967

A04-C02A	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02. pre-1970	A04-D	<b>POLYMERS FROM SUBSTITUTED MONOOLEFINIC MONOMERS CONTAINING N</b>
A04-C02B	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02. pre-1970	A04-D01	<b>General</b>
A04-C02B1	.. <b>High impact polystyrene</b> Previous code(s): A04-C02+ 1994	A04-D02	<b>(Meth)acrylonitrile homopolymers</b>
A04-C02C	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-C02. pre-1970	A04-D02A	. <b>Production, compositions</b> Prior to 1970 see A04-D02. 1970
A04-C02D	. <b>Treatment</b> Applied during the accession number range 80,000P (Pre-CPI) to date. Prior to 80,000 see A04-C02. pre-1970	A04-D02B	. <b>Fibres, textiles</b> Prior to 1970 see A04-D02. 1970
A04-C02E	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,00P see A04-C02. pre-1970	A04-D03	<b>(Meth)acrylonitrile copolymers</b> Excluding ABS for which see A04-C03 and acrylonitrile with butadiene for which see A04-B04.
A04-C03	<b>Styrene with acrylonitrile and butadiene</b> i.e. ABS.	A04-D03A	. <b>Production, compositions</b> Prior to 1970 see A04-D03. 1970
A04-C04	<b>Styrene with other monomers</b> Excluding with butadiene for which see A04-B03+; for ABS see A04-C03.	A04-D03B	. <b>Fibres, textiles</b> Prior to 1970 see A04-D03. 1970
A04-C04A	. <b>Production, compositions</b> Prior to 1970 see A04-C04. 1970	A04-D04	<b>(Meth)acrylamide (co)polymers (optionally substituted)</b>
A04-C04B	. <b>Styrene with acrylonitrile</b> SAN. Previous code(s): A04-C04+, A04-D04+ 1994	A04-D04A	. <b>Uses</b> Prior to 1970 see A04-D04. 1970
A04-C05	<b>Alkyl substituted styrenes (co)polymers</b> Hydrocarbon only e.g. vinyl toluene, alpha-methyl styrene. Prior to 1986 see A04-C. 1986	A04-D04A1	.. <b>Adhesives and binders; coatings; (electro) photographic, laboratory, optical</b> Prior to 1986 see A04-D04A. 1986
A04-C	<b>Others</b> e.g. vinyl naphthalene, indene, coumarone, styrene sulphonic acid, vinyl phenol, chloromethyl styrene, cinnamic acid.	A04-D04A2	.. <b>Mining, chemical engineering</b> Prior to 1986 see A04-D04A. 1986
		A04-D05	<b>Vinyl lactams (co)polymers</b>
		A04-D05A	. <b>Vinyl pyrrolidones (co)polymers</b> Previous code(s): A04-D05 1994
		A04-D06	<b>Vinyl carbazoles (co)polymers</b>
		A04-D07	<b>Vinyl pyridines (co)polymers</b>
		A04-D08	<b>Other vinyl heterocyclics (co)polymers; (substituted) maleimides</b> Excluding A04-D05, A04-D06, A04-D07. Prior to 1977 see A04-D. 1977
		A04-D09	<b>Other amines (co)polymers</b> Excluding A04-D02 to A04-D08; including (quaternary ammonium) salts thereof, e.g. aminoalkyl (meth)acrylates, non-vinyl heterocyclic amines. Prior to 1977 see A04-D. 1977
		A04-D	<b>Others</b> e.g. vinylidene cyanide, cyanoacrylates.

<b>A04-E</b>	<b>POLYMERS FROM NITROGEN-FREE, HALOGEN-SUBSTITUTED ALIPHATIC MONOOLEFINIC MONOMERS</b>	
<b>A04-E01</b>	<b>General</b>	
<b>A04-E02</b>	<b>Vinyl chloride homopolymer</b> Applied during the pre-70 (pre-CPI) accession number range 60,0001P - 79,999P and was then discontinued.	1966-1967
<b>A04-E02A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02.	pre-1970
<b>A04-E02B</b>	. <b>Compounding</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02.	pre-1970
<b>A04-E02C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02.	pre-1970
<b>A04-E02D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02.	pre-1970
<b>A04-E02E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-E02.	pre-1970
<b>A04-E02E1</b>	.. <b>Chemical, electrical and mechanical engineering; building, civil engineering</b> Prior to 1970 see A04-E02E.	1970
<b>A04-E02E2</b>	.. <b>Adhesives and binders; coatings</b> Prior to 1970 see A04-E02E.	1970
<b>A04-E03</b>	<b>Vinyl chloride copolymers</b> Applied from the start of Plasdac to the end of 1985 and was then discontinued.	1966-1967
<b>A04-E03A</b>	. <b>Production</b> Prior to 1970 see A04-E03.	1970
<b>A04-E03B</b>	. <b>Compositions</b> Prior to 1986 see A04-E03.	1986
<b>A04-E03C</b>	. <b>Fabrication</b> Prior to 1986 see A04-E03.	1986
<b>A04-E03D</b>	. <b>Treatment</b> Prior to 1986 see A04-E03.	1986
<b>A04-E03E</b>	. <b>Uses</b> Prior to 1986 see A04-E03.	1986
<b>A04-E04</b>	<b>Vinyl bromide, iodide homopolymers</b>	
<b>A04-E05</b>	<b>Vinyl bromide, iodide copolymers</b>	
<b>A04-E06</b>	<b>Vinylidene halide homopolymers</b> Excluding fluoride for which see A04-E10B.	
<b>A04-E07</b>	<b>Vinylidene halide copolymers</b> Excluding fluoride for which see A04-E10B.	
<b>A04-E08</b>	<b>Tetrafluoroethylene homopolymer (PTFE)</b>	
<b>A04-E08A</b>	. <b>Production, compositions</b> Prior to 1970 see A04-E08.	1970
<b>A04-E08B</b>	. <b>Mechanical engineering uses</b> Prior to 1970 see A04-E08.	1970
<b>A04-E09</b>	<b>Tetrafluoroethylene copolymers</b>	
<b>A04-E10</b>	<b>Fluorine containing other or general</b>	
<b>A04-E10A</b>	. <b>Vinyl fluoride (co)polymers</b> Prior to 1986 see A04-E10.	1986
<b>A04-E10B</b>	. <b>Vinylidene fluoride (co)polymers</b> Prior to 1986 see A04-E10.	1986
<b>A04-E10C</b>	. <b>F containing ether (co)polymers</b> Prior to 1986 see A04-E10.	1986
<b>A04-E10D</b>	. <b>Other specific F containing (co)polymers</b> e.g. hexafluoropropylene, chlorotrifluoroethylene, fluoroacrylates. Prior to 1986 see A04-E10.	1986
<b>A04-E</b>	<b>Others</b> e.g. allyl chloride, chloroethyl vinyl ether.	

<b>A04-F</b>	<b>POLYMERS FROM NITROGEN- AND HALOGEN-FREE, SUBSTITUTED ALIPHATIC MONOOLEFINIC MONOMERS</b>	
<b>A04-F01</b>	<b>General</b>	
<b>A04-F01A</b>	. <b>Uses</b> Prior to 1986 see A04-F01.	1986
<b>A04-F01A1</b>	.. <b>Adhesives and binders; coatings</b> Prior to 1986 see A04-F01.	1986
<b>A04-F02</b>	<b>Aldehyde (co)polymers</b> e.g. acrolein.	
<b>A04-F03</b>	<b>Ketone (co)polymers</b> e.g. methyl vinyl ketone, methyl isopropenyl ketone.	
<b>A04-F04</b>	<b>(Meth)acrylic acid or anhydride (co)polymers</b> Including metal and ammonium salts.	
<b>A04-F04A</b>	.. <b>Production, compositions</b> Prior to 1970 see A04-F04.	1970
<b>A04-F04B</b>	.. <b>Adhesives and binders; coatings</b> Prior to 1970 see A04-F04.	1970
<b>A04-F05</b>	<b>Other carboxylic acid or anhydride (co)polymers</b> Excluding A04-F04+; including metal and ammonium salts, e.g. maleic anhydride, itaconic acid.	
<b>A04-F06</b>	<b>(Meth)acrylic ester (co)polymers</b> (Including glycidyl acrylates (with A05-A04). Applied during the pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.	1966-1967
<b>A04-F06A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06B</b>	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-F06.	pre-1970
<b>A04-F06E1</b>	.. <b>Adhesives, coatings</b> Applied from the start of 1970 to the end of 1985 and was then discontinued. Prior to 1970 see A04-F06E.	1970-1985
<b>A04-F06E2</b>	.. <b>Textile coatings and finishes</b> Prior to 1970 see A04-F06E.	1970
<b>A04-F06E3</b>	.. <b>Oil and fuel additives</b> Prior to 1970 see A04-F06E.	1970
<b>A04-F06E4</b>	.. <b>(Electro)photographic, optical</b> Prior to 1986 see A04-F06E.	1986
<b>A04-F06E5</b>	.. <b>Medical, dental, cosmetic and veterinary</b> Prior to 1986 see A04-F06E.	1986
<b>A04-F06E6</b>	.. <b>Adhesives and binders</b> Prior to 1986 see A04-F06E1.	1986
<b>A04-F06E7</b>	.. <b>Coatings</b> Excluding A04-F06E2. Prior to 1986 see A04-F06E1.	1986
<b>A04-F07</b>	<b>Esters of unsaturated carboxylic acids and saturated alcohols (co)polymers</b> Excluding A04-F06+; e.g. dibutyl maleate.	
<b>A04-F08</b>	<b>Vinyl acetate homopolymer</b>	
<b>A04-F09</b>	<b>Vinyl acetate copolymers</b> Excluding ethylene-vinyl acetate copolymer (EVA) for which see A04-G07.	
<b>A04-F10</b>	<b>Other vinyl carboxylate (co)polymers</b> Excluding A04-F08, A04-F09; e.g. vinyl butyrate, vinyl stearate.	
<b>A04-F11</b>	<b>Ether (co)polymers</b> e.g. vinyl isobutyl ether, allyl ethers.	
<b>A04-F</b>	<b>Others</b> e.g. vinylene carbonate, allyl alcohol. For polyvinyl acetal, butyral and formal see A10-E02; for polyvinyl alcohol (PVA) see A10-E09+. Excluding vinyl or allyl inorganic acids (and their metal salts) or their esters, for which see A04-A.	

<b>A04-G</b>	<b>POLYMERS FROM UNSUBSTITUTED (CYCLO)-ALIPHATIC MONOOLEFINIC MONOMERS</b>	
<b>A04-G01</b>	<b>General</b> Applied during pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.	
		1966-1967
<b>A04-G01A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,00P see A04-G01.	
		pre-1970
<b>A04-G01B</b>	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.	
		pre-1970
<b>A04-G01C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.	
		pre-1970
<b>A04-G01D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.	
		pre-1970
<b>A04-G01E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.	
		pre-1970
<b>A04-G02</b>	<b>Ethylene homopolymer</b> Applied during pre-1970 (pre-CPI) accession number range 60,000P - 79,999P and was then discontinued.	
		1966-1967
<b>A04-G02A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02.	
		pre-1970
<b>A04-G02B</b>	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G01.	
		pre-1970
<b>A04-G02C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02.	
		pre-1970
<b>A04-G02D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02.	
		pre-1970
<b>A04-G02E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G02.	
		pre-1970
<b>A04-G02E1</b>	.. <b>Adhesives and binders; coatings; textiles</b> Prior to 1970 see A04-G02E.	
		1970
<b>A04-G02E2</b>	.. <b>Films; packaging</b> Prior to 1970 see A04-G02E.	
		1970
<b>A04-G02E3</b>	.. <b>(Electro)photographic; medical; dental, cosmetic and veterinary; household, office</b> Prior to 1970 see A04-G02E.	
		1970
<b>A04-G02E4</b>	.. <b>Electrical and mechanical engineering; building, civil engineering</b> Prior to 1986 see A04-G02E.	
		1986
<b>A04-G03</b>	<b>Propylene homopolymer</b> Applied during pre-1970 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.	
		1966-1967
<b>A04-G03A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.	
		pre-1970
<b>A04-G03B</b>	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.	
		pre-1970
<b>A04-G03C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.	
		pre-1970
<b>A04-G03D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.	
		pre-1970
<b>A04-G03E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A04-G03.	
		pre-1970
<b>A04-G03E1</b>	.. <b>Films; packaging; (electro) photographic; medical, dental, cosmetic and veterinary; household, office</b> Prior to 1970 see A04-G03E.	
		1970
<b>A04-G04</b>	<b>Butene-1 (co)polymers</b>	

A04-G05	<b>Isobutene (co)polymers</b> Excluding with isoprene for which see A04-G05A.	
A04-G05A	. <b>Butyl rubber</b> i.e. isobutene-isoprene copolymer. Prior to 1970 see A04-G05.	1970
A04-G06	<b>Ethylene copolymers with olefin-1</b> Including LLDPE and terpolymers such as EPDM.	
A04-G06A	. <b>Production, compositions</b> Prior to 1970 see A04-G06.	1970
A04-G07	<b>Ethylene with vinyl acetate (EVA)</b>	
A04-G08	<b>Ethylene copolymers</b> Excluding A04-G06+, A04-G07. See also A04-G11.	
A04-G08A	. <b>Ethylene copolymers with unsaturated acids, anhydrides or esters</b> For ionomers see A10-E21B. Prior to 1986 see A04-G08.	1986
A04-G09	<b>Propylene copolymers</b> Excluding A04-G06+.	
A04-G10	<b>4-Methylpentene-1 (co)polymers</b>	
A04-G11	<b>Ethylene co-polymers, general</b> Indexed where three or more copolymers of Ethylene are present.	1994
	<i>Previous code(s): A04-G01+, A04-G06+, A04-G07, A04-G08+</i>	
A04-G	<b>Others</b> e.g. from hexene-1, norbornene, vinyl cyclohexane; including polyalkenamers i.e. involving ring opening without affecting C-C double bond.	
A04-H	<b>ADDITION TYPE RESINS</b>	2002
A04-H00H	<b>General addition type resin</b>	2002

## A05 CONDENSATION POLYMERS

A05-A	<b>EPOXY RESINS</b> i.e. any compound containing 2 or more epoxy groups. For polymers containing epoxy groups by modification see A10-E+ e.g. epoxidised novolacs see A10-E08C. For acrylated epoxy resins (vinyl ester resins) see A10-E07B.	
A05-A01	<b>General</b> Applied during the pre-70 (pre-CPI) accession number range 60,000P - 79,999P and was then discontinued.	1966-1967
A05-A01A	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	pre-1970
A05-A01B	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	pre-1970
A05-A01B1	.. <b>With crosslinking agent or system</b> Prior to 1986 see A05-A01B.	1986
A05-A01C	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	pre-1970
A05-A01D	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	pre-1970
A05-A01E	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-A01.	pre-1970
A05-A01E1	.. <b>Adhesives, coatings</b> Applied from the start of 1970 to the end of 1985 and was then discontinued. Prior to 1970 see A05-A01E.	1970-1985
A05-A01E2	.. <b>Electrical engineering</b> Including electrical encapsulation. Prior to 1970 see A05-A01E.	1970
A05-A01E3	.. <b>Adhesives and binders</b> Prior to 1986 see A05-A01E1.	1986
A05-A01E4	.. <b>Coatings</b> Prior to 1986 see A05-A01E1.	1986
A05-A02	<b>Glycidyl ethers of phenols</b> e.g. bisphenol-A diglycidyl ether.	



A05-A03	<b>Glycidyl ethers of alcohols</b> e.g. butane diol diglycidyl ether.	A05-C03A	<b>Adhesives and binders; coatings; laminates; reinforced plastics</b> Prior to 1986 see A05-C03.	1986
A05-A04	<b>Other glycidyl cpds.</b> e.g. diglycidyl carboxylates; diglycidyl derivatives of amines; (co)polymers of glycidyl acrylates (with A04-F06+); polyglycidyl derivatives of isocyanuric acid.	A05-C04	<b>Monohydric, mononuclear phenols and any other aldehyde</b>	
A05-A05	<b>Cycloaliphatic epoxides</b> e.g. vinyl cyclohexene diepoxide.	A05-C	<b>Others</b> e.g. from monohydric, polynuclear phenols.	
A05-A	<b>Others</b> e.g. butadiene diepoxide.	A05-D	<b>UNSATURATED LINEAR POLYMERS</b> For all non-linear unsaturated polyesters see A05-E08. A reference to polyester with no further details is assumed to be of the type A05-D02+ if used for crosslinkable / reinforced compositions or products.	
A05-B	<b>AMINOPLASTS</b> e.g. reaction products of aldehyde/ketone with amine/amide, usually involving alkylation and then polycondensation. For etherified aminoplasts e.g. alkoxylated MF see A10-E08C.	A05-D01	<b>General</b>	
A05-B01	<b>General</b>	A05-D02	<b>Unsaturated polyesters from unsaturated dibasic acids</b> Acids include derivatives e.g. acid halides, anhydrides, esters, metal salts. Applied during the pre-1970 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued.	1966-1967
A05-B02	<b>Melamine-formaldehyde (MF) resins</b> For 'alkylated' e.g. butylated or methoxy-methylated MF resins see A10-E08C.	A05-D02A	<b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970
A05-B03	<b>Urea-formaldehyde (UF) resins</b>	A05-D02B	<b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970
A05-B04	<b>Ethylene- or propylene-urea (derivatives)-formaldehyde resins</b>	A05-D02C	<b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970
A05-B	<b>Others</b> e.g. dicyandiamide-, benzoguanamine-formaldehyde resins.	A05-D02D	<b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970
A05-C	<b>PHENOPLASTS</b> i.e. reaction products of aldehyde/ketone with phenol(s) usually involving alkylation e.g. methylation and then polycondensation. Includes resols and novolacs.	A05-D02E	<b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-D02.	pre-1970
A05-C01	<b>General</b>	A05-D02E1	<b>Building, civil engineering; laminates</b> Prior to 1970 see A05-D02E.	1970
A05-C01A	<b>Production, compositions</b> Prior to 1970 see A05-C01.	A05-D	<b>Others</b> e.g. unsaturated polyesters from saturated dibasic acids and unsaturated dihydric alcohols.	
A05-C01B	<b>Uses</b> Prior to 1986 see A05-C01.			
A05-C01B1	<b>Adhesives and binders; coatings; laminates; reinforced plastics</b> Prior to 1986 see A05-C01.			
A05-C01B2	<b>(Electro)photographic use</b> <i>Previous code(s): A05-C01B</i>			
A05-C02	<b>Polyhydric phenols and any aldehyde</b> e.g. resorcinol-formaldehyde resins.			
A05-C03	<b>Monohydric, mononuclear phenols and formaldehyde</b> e.g. phenol-formaldehyde, cresol-formaldehyde.			

<b>A05-E</b>	<b>SATURATED POLYESTERS</b> Including aromatic unsaturation, but excluding olefinic or acetylenic unsaturation. Acids include derivatives e.g. acid halides, anhydrides, esters, metal salts. Dihydric alcohols and phenols include derivatives e.g. acetates, haloformates. Polyesters which are subsequently used for polyesterurethanes are only searchable in A05-E: if their production is novel. For all polyesterurethanes see A05-G02 except for foams when see A12-S02+. A reference to polyester with no further details is assumed to be of the type A05-E: section if used for fibres, films, paints, and thermoplastic polyester mouldings.	
<b>A05-E01</b>	<b>General</b>	
<b>A05-E01A</b>	. <b>Production, compositions</b> Applied from the start of 1970 to the end of 1985 and was then discontinued. Prior to 1970 see A05-E01.	1970-1985
<b>A05-E01A1</b>	.. <b>Production</b> Prior to 1986 see A05-E01A.	1986
<b>A05-E01A2</b>	.. <b>Compositions</b> Prior to 1986 see A05-E01A.	1986
<b>A05-E01B</b>	. <b>Textiles, textile treatments</b> Prior to 1970 see A05-E01.	1970
<b>A05-E01B1</b>	.. <b>Mechanical treatment</b> Prior to 1986 see A05-E01B.	1986
<b>A05-E01B2</b>	.. <b>Chemical treatment</b> Including dyeing. Prior to 1986 see A05-E01B.	1986
<b>A05-E01B3</b>	.. <b>Specific uses</b> Prior to 1986 see A05-E01B.	1986
<b>A05-E01C</b>	. <b>Fabrication, treatment</b> Excluding A05-E01B+. Prior to 1986 see A05-E01.	1986
<b>A05-E01D</b>	. <b>Uses</b> Excluding A05-E01B+. Prior to 1986 see A05-E01.	1986
<b>A05-E01D1</b>	.. <b>Adhesives and binders; coatings</b> Prior to 1986 see A05-E01.	1986
<b>A05-E01D2</b>	.. <b>Electrical engineering</b> Prior to 1986 see A05-E01.	1986
<b>A05-E01D3</b>	.. <b>Films; packaging</b> Prior to 1986 see A05-E01.	1986
<b>A05-E02</b>	<b>From saturated, (cyclo)aliphatic, dicarboxylic acids and dihydric alcohols or phenols; hydroxyacids; or lactones and glycolides</b>	
<b>A05-E02A</b>	. <b>From saturated, (cyclo)aliphatic, dicarboxylic acids and dihydric alcohols or phenols</b>	2005
<b>A05-E02B</b>	. <b>From hydroxyacids</b> e.g. polyhydroxybutyrate, polyhydroxyvalerate.	2005
<b>A05-E02C</b>	. <b>From lactones and glycolides</b>	2005
<b>A05-E03</b>	<b>From isophthalic acid and dihydric alcohols or phenols</b> Excluding from ring substituted isophthalic e.g. 5-sulphoisophthalic acid, for which see A05-E05. Including from copolymers of isophthalic acid and terephthalic acid.	
<b>A05-E04</b>	<b>From terephthalic acid and dihydric alcohols or phenols</b> Excluding from ring substituted terephthalic, for which see A05-E05. Applied during the pre-70 (pre-accession number range 60,001P - 79,999P and was then discontinued.	1966-1967
<b>A05-E04A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04.	pre-1970
<b>A05-E04B</b>	. <b>Compounding</b> Applied during the accession number range 80,000P (pe-CPI) to date. Prior to 80,000P see A05-E04.	pre-1970
<b>A05-E04C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04.	pre-1970
<b>A05-E04D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04.	pre-1970
<b>A05-E04E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-E04.	pre-1970
<b>A05-E05</b>	<b>From other aromatic di-carboxylic acids and dihydric alcohols or phenols</b> i.e. excluding A05-E03, A05-E04+, e.g. from 5-sulpho-isophthalic acid. For saturated polyesters based on naphthalene dicarboxylic acid see A05-E05A.	

A05-E05A	. From naphthalene dicarboxylic acid and dihydric alcohol or phenol Previous code(s): A05-E05 1994	A05-F01B2	.. With polymers i.e. mixture. Prior to 1986 see A05-F01B. 1986
A05-E06	Polycarbonates; poly-thiocarbonates	A05-F01C	. Fabrication Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01. pre-1970
A05-E06A	. Production; compositions Prior to 1986 see A05-E06. 1986	A05-F01D	. Treatment Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01. pre-1970
A05-E06B	. Uses Prior to 1986 see A05-E06. 1986	A05-F01E	. Uses Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01. pre-1970
A05-E07	Polyesteramides; polyesterimides With A05-J01+.	A05-F01E1	.. Textiles Prior to 1970 see A05-F01E. 1970
A05-E08	Alkyd resins All types including glyptal resins, non-linear polyesters, drying oil or non-drying oil derived polyesters. Prior to 1970 see A05-E. 1970	A05-F01E2	.. Electrical and mechanical engineering Prior to 1970 see A05-F01E. 1970
A05-E09	Polyetheresters e.g. Hytrel (RTM). Prior to 1986 see the appropriate A05-E: section and A05-H: section e.g. for production of polybutylene-terephthalate polytetramethylene glycol (Hytrel (RTM) see A05-E04A and A05-H05. 1986	A05-F01E3	.. Films; packaging; medical, dental, cosmetic and veterinary; (electro) photographic Prior to 1986 see A05-F01E. 1986
A05-E10	Polyarylates Prior to 1986 see A05-E01+, A05-E03, A05-E04+ and A05-E05. 1986	A05-F02	From aliphatic dibasic acid(s) and any diamine(s) e.g. nylon 6:6 and nylon 6:10.
A05-E	Others e.g. from dibasic non-carboxylic acids e.g. benzene disulphonic acid; from heterocyclic diacids.	A05-F03	From lactam(s) and/or amino acid(s) e.g. nylon 6, nylon 11.
A05-F	<b>POLYAMIDES</b> Contain -CON(R)- groups in the backbone of the repeat unit. Including from S containing acids. Excluding polyesteramides for which see A05-E07. Acids include derivatives e.g. acid halides, anhydrides, esters, metal salts.	A05-F04	Polyaminoamides from polymerised vegetable oil acids and polyamino components (Versamids®)
A05-F01	General Applied during the pre-1970 (pre-CPI) accession number range 60,0001P - 79,999P and was then discontinued. 1966-1967	A05-F05	Polyamides from aromatic dicarboxylic acid(s) and aromatic diamine(s) only Including aramids, 'Kevlar' (RTM). Prior to 1986 see A05-F. 1986
A05-F01A	. Production Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-F01. pre-1970	A05-F	Others e.g. from di-isocyanates and di-acids; polyamideimides (with A05-J01+).
A05-F01B	. Compositions Applied from 80,000P (pre-CPI) to the end of 1985 and was then discontinued. Prior to 80,000P see A05-F01. 1967-1985		
A05-F01B1	.. With additives Including polymeric. Prior to 1986 see A05-F01B.		

<b>A05-G</b>	<b>POLYURETHANES</b> Contain -NHCOO- groups in the backbone of the repeat unit. For polyurethane foams see A12-S02+ only. Includes polythiourethanes. For polyurethane polyurea see also A05-J04. Isocyanates may be blocked isocyanates (with A02-C).
<b>A05-G01</b>	<b>General</b> Applied during the pre-70 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued. 1966-1967
<b>A05-G01A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,001P see A05-G01. pre-1970
<b>A05-G01B</b>	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01. pre-1970
<b>A05-G01C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01. pre-1970
<b>A05-G01D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01. pre-1970
<b>A05-G01E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI) to date. Prior to 80,000P see A05-G01. pre-1970
<b>A05-G01E1</b>	.. <b>Coatings</b> Prior to 1970 see A05-G01E. 1970
<b>A05-G01E2</b>	.. <b>Electrical and mechanical engineering</b> Prior to 1986 see A05-G01E. 1986
<b>A05-G02</b>	<b>From polyester polyol(s) and isocyanate(s)</b> For polyester polyols do not search code(s) from A05-E; see note under Polyesters.
<b>A05-G03</b>	<b>From polyether polyol(s) and isocyanate(s)</b> For polyether polyols do not search code(s) from A05-H; see note under Polyethers.
<b>A05-G04</b>	<b>From monomeric polyols and isocyanate</b> e.g. from butane diol.
<b>A05-G</b>	<b>Others</b> e.g. from polybutadiene diol and isocyanate(s); from bis-haloformates and diamines.

<b>A05-H</b>	<b>POLYETHERS</b> Polyethers which are subsequently used for polyetherurethanes are only searchable in A05-H: if their production is novel. For all polyetherurethanes see A05-G03 except for foams when see A12-S02+. For end modified polyalkylene oxides see A10-E+ e.g. for polyoxyethylene nonylphenol ether see A10-E08B.
<b>A05-H01</b>	<b>General</b>
<b>A05-H01A</b>	. <b>Production, compositions</b> Prior to 1986 see A05-H01. 1986
<b>A05-H01B</b>	. <b>Uses</b> Prior to 1986 see A05-H01. 1986
<b>A05-H02</b>	<b>Oxymethylene (co)polymers (acetal resin)</b> Including formaldehyde homologues e.g. trioxane.
<b>A05-H02A</b>	. <b>Production, compositions</b> Prior to 1970 see A05-H02. 1970
<b>A05-H03</b>	<b>Oxyethylene (co)polymers</b>
<b>A05-H03A</b>	. <b>Production, compositions general</b> Prior to 1970 see A05-H03. 1970
<b>A05-H03A1</b>	.. <b>Oxyethylene Homopolymer production</b> 2002
<b>A05-H03A2</b>	.. <b>Copolymer production</b> 2002
<b>A05-H03A3</b>	.. <b>Oxyethylene Homopolymer compositions</b> 2002
<b>A05-H03A4</b>	.. <b>Copolymer compositions</b> 2002
<b>A05-H04</b>	<b>Oxypropylene (co)polymers</b> Including epihalohydrin polymers.
<b>A05-H04A</b>	. <b>Production, compositions general</b> 2002
<b>A05-H04A1</b>	.. <b>Oxypropylene Homopolymer production</b> 2002
<b>A05-H04A2</b>	.. <b>Copolymer production</b> 2002
<b>A05-H04A3</b>	.. <b>Oxypropylene Homopolymer compositions</b> 2002
<b>A05-H04A4</b>	.. <b>Copolymer compositions</b> 2002
<b>A05-H05</b>	<b>From furans and derivatives</b> e.g. polytetrahydrofuran.
<b>A05-H06</b>	<b>Phenoxy resins</b> i.e. from dihydric phenols, including bisphenols, and epihalohydrins; excluding A05-A02.

A05-H07	<b>Aromatic polyethers</b> Excluding A05-H06.			A05-J11	<b>Polyimines</b> Excluding polyalkylene imines for which see A05-J07; A05-J09; e.g. polyamine-polymaleimide resins. Prior to 1986 see A05-J.	1986
A05-H07A	. <b>Polyarylene ethers</b>  <i>Previous code(s): A05-H07</i>	1994		A05-J12	<b>Polypyrroles and Polythiophenes</b> Optionally substituted.  <i>Previous code(s): A05-J</i>	1994
A05-H	<b>Others</b> e.g. Polyglycerol			A05-J	<b>Others</b> Excluding A05-A01 to A05-J11; e.g.furan resins (from furfuryl alcohol), Friedel Crafts resins, poly-p-xylylene and phenol- terpene resins.	
A05-J	<b>OTHER POLYMERS</b>			A05-K	<b>CONDENSATION TYPE RESINS</b>	2002
A05-J01	<b>Polyimides</b> e.g. formed from a tetracarboxylic acid and a diamine. Including polyamic acid. For polyamideimides see also A05-F.			A05-K00K	<b>General condensation type resin</b>	2002
A05-J01A	. <b>Production, compositions</b> Prior to 1986 see A05-J01.	1986				
A05-J01B	. <b>Uses</b> Prior to 1986 see A05-J01.	1986				
A05-J02	<b>Heterocyclic polymers produced by cyclisation during polycondensation</b> Excluding A05-J01+; e.g. polyparabanic acid, polyhydantoins, polyoxazoli(di)nes; poly(iso)cyanurates; polybenzimidazoles.					
A05-J03	<b>Polyanhydrides</b>					
A05-J04	<b>Polyureas; polythioureas</b> e.g. from polyamines and polyisocyanates.					
A05-J05	<b>Polysulphides; polyepisulphides (polythioethers, thiokols); polyene-polythiol polymers</b>					
A05-J05A	. <b>Poly (arylene sulphides)</b> e.g. polyphenylene sulphide.  <i>Previous code(s): A05-J05</i>	1994				
A05-J06	<b>Polysulphones</b> All types including polyethers containing sulphone group(s) from 1986. For earlier references see A05-H07.					
A05-J07	<b>Polyalkylene imines</b> e.g. polyethylene imine.					
A05-J08	<b>Aldehyde or ketone condensates</b> Excluding A05-B-; A05-C-; A05-H02+; e.g. naphthalene sulphonic acid-formaldehyde condensates, furfural resins. Prior to 1970 see A05-J.	1970				
A05-J09	<b>Amine-epihalohydrin polymers; polycarbodiimides, polyhydrazides</b> Prior to 1977 see A05-J.	1977				
A05-J10	<b>Polyketones</b> Including poly(ether) ether ketones e.g. PEEK (RTM). Prior to 1986 see A05-J and A05-H07 for structures such as - (OCC6H4C00C6H4)n and - (OC6H4OC6H4C0C6H4)n respectively.	1986				

## A06 INORGANIC POLYMERS

Natural inorganic polymers such as silicates are not indexed in section A.

<b>A06-A</b>	<b>SILICON POLYMERS</b> Including silicones, polysiloxanes, polysilazanes.
<b>A06-A</b>	<b>General</b> Applied during the pre-1970 (pre-CPI) accession number range 60,001P - 79,999P and was then discontinued. 1966-1967
<b>A06-A00A</b>	. <b>Production</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
<b>A06-A00B</b>	. <b>Compositions</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
<b>A06-A00C</b>	. <b>Fabrication</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
<b>A06-A00D</b>	. <b>Treatment</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
<b>A06-A00E</b>	. <b>Uses</b> Applied during the accession number range 80,000P (pre-CPI to date). Prior to 80,000P see A06-A. pre-1970
<b>A06-A00E1</b>	.. <b>Adhesives and binders; coatings, textile treatment</b> Prior to 1970 see A06-A00E. 1970
<b>A06-A00E2</b>	.. <b>Chemical, electrical and mechanical engineering</b> Prior to 1970 see A06-A00E. 1970
<b>A06-A00E3</b>	.. <b>Medical, dental, cosmetic and veterinary</b> Prior to 1986 see A06-A00E. 1986
<b>A06-A00E4</b>	.. <b>(Electro)photographic; printing; optical</b> Prior to 1986 see A06-A00E. 1986

<b>A06-B</b>	<b>PHOSPHORUS POLYMERS</b>
<b>A06-B</b>	<b>Phosphorus polymers</b> i.e. Phosphorus present in repeat unit and not by modification e.g. polyphosphazenes.
<b>A06-C</b>	<b>BORON POLYMERS</b>
<b>A06-C</b>	<b>Boron polymers</b> i.e. Boron present in repeat unit and not by modification e.g. polycarboranes.
<b>A06-D</b>	<b>METAL OR METALLOID CONTAINING POLYMERS</b>
<b>A06-D01</b>	<b>Alum(in)oxanes</b>  Previous code(s): A06-D 1994
<b>A06-D</b>	<b>Metal or metalloid containing polymers</b> i.e. metal(loid) in repeat unit and not by modification; e.g. polygermanates, polytitanates.

## A07 POLYMER BLENDS, AQUEOUS DISPERSIONS

<b>A07-A</b>	<b>MIXTURES OF POLYMERS</b> Used for genuine mixtures only and not for polymeric additives. N.B. Natural polymers are those coded in A03; addition polymers are those coded in A04; condensation polymers are those coded in A05; and A06:.
<b>A07-A</b>	<b>Mixtures</b> Applied from the start of Plasdoc to the end of 1969 and was then discontinued. 1966-1969
<b>A07-A01</b>	<b>Containing natural polymers</b> Excluding natural rubber for which see A07-A02A. Prior to 1970 see A07-A. 1970
<b>A07-A01A</b>	. <b>Containing tar, pitch, bitumen and/or petroleum resins</b> Prior to 1986 see A07-A01. 1986
<b>A07-A02</b>	<b>Containing addition (co)polymers only</b> The following sub-divisions are hierarchical e.g. a PVC-polyolefin mixture is coded A07-A02B only. Prior to 1970 see A07-A. 1970
<b>A07-A02A</b>	. <b>From diolefinic monomers or natural rubber</b> Prior to 1977 see A07-A02. 1977
<b>A07-A02A1</b>	.. <b>Containing butadiene (co)polymers</b> Prior to 1986 see A07-A02A. 1986
<b>A07-A02B</b>	. <b>From Nitrogen or halogen containing monoolefinic monomers</b> Prior to 1977 see A07-A02. 1977
<b>A07-A02C</b>	. <b>From aliphatic substituted monoolefinic monomers not containing Nitrogen or halogen</b> Prior to 1977 see A07-A02. 1977
<b>A07-A02D</b>	. <b>From monoolefinic aliphatic hydrocarbons</b> No other polymer type in blend. Prior to 1977 see A07-A02. 1977
<b>A07-A03</b>	<b>Containing condensation polymers only</b> Prior to 1970 see A07-A. 1970
<b>A07-A03A</b>	. <b>Containing saturated polyester and/or polycarbonate</b> Prior to 1986 see A07-A03. 1986
<b>A07-A03B</b>	. <b>Containing epoxy resin</b> Prior to 1986 see A07-A03. 1986

<b>A07-A03C</b>	. <b>Containing polyamide, polyurethane and/or polyether</b> Prior to 1986 see A07-A03. 1986
<b>A07-A03D</b>	. <b>Containing unsaturated polyester, alkyd, aminoplast and/or phenoplast</b> Prior to 1986 see A07-A03. 1986
<b>A07-A04</b>	<b>Containing mixtures of addition and condensation polymers</b> Prior to 1970 see A07-A. 1970
<b>A07-A04A</b>	. <b>Epoxy resin</b> Prior to 1977 see A07-A04. 1977
<b>A07-A04B</b>	. <b>Phenoplast and/or aminoplast</b> Prior to 1977 see A07-A04. 1977
<b>A07-A04C</b>	. <b>Unsaturated polyester</b> Prior to 1977 see A07-A04. 1977
<b>A07-A04D</b>	. <b>Saturated polyester</b> Including alkyds. Prior to 1977 see A07-A04. 1977
<b>A07-A04E</b>	. <b>Polyamide, polyurethane and/or polyether</b> Prior to 1977 see A07-A04. 1977
<b>A07-A04F</b>	. <b>Other condensation polymer(s)</b> Prior to 1977 see A07-A04. 1977
<b>A07-A05</b>	<b>Unspecified polymer</b> 2002

<b>A07-B</b>	<b>AQUEOUS DISPERSIONS AND LATEXES</b>
<b>A07-B</b>	<b>General</b>
<b>A07-B01</b>	<b>Rubber latexes</b> Natural or synthetic. Prior to 1970 see A07-B. 1970
<b>A07-B02</b>	<b>Acrylic polymer dispersions</b> Prior to 1977 see A07-B. 1977
<b>A07-B03</b>	<b>Other addition polymer dispersions</b> Prior to 1977 see A07-B. 1977
<b>A07-B04</b>	<b>Natural and/or condensation polymer dispersions</b> Prior to 1977 see A07-B. 1977

## A08 ADDITIVES

This section covers all the conventional additives or materials associated with polymers. Some of these directly affect the properties of polymers (plasticisers, antioxidants etc.) while others affect indirectly e.g. emulsifiers for emulsion polymerisation, biocides for marine paints etc. Polymeric additives (not blends for which see A07-A: section) are included. See appropriate A08-A: through A08-S: sections in addition to the appropriate polymer code(s). Coding A08-M09+ code may involve additional code from A08-R: section (e.g. A08-R03 for carbon black conductive filler) and from A09-A: section (e.g. A09-A03 for conductivity). Expanded (e.g. microballons) fillers are coded in the appropriate code from A08-R: section. For syntactic foam see A12-W12. The starting materials, the intermediates, processes and the catalysts used in the production of non-polymeric additives are not coded.

A08-A	STABILISERS
A08-A01	<b>General</b> Including multi- functional e.g. one compound acting as heat and light stabiliser.
A08-A01A	. <b>For addition polymers</b> Prior to 1986 see A08-A01. 1986
A08-A01A1	.. <b>For aliphatic monoolefinic (co)polymers</b> Hydrocarbon only. Prior to 1986 see A08-A01. 1986
A08-A01B	. <b>For condensation polymers</b> Prior to 1986 see A08-A01. 1986
A08-A02	Against ionising radiation
A08-A03	Against light or UV
A08-A04	Against heat
A08-A04A	. <b>Metal containing</b> Including Boron and Silicon. Prior to 1970 see A08-A04. 1970
A08-A05	Antiozonant
A08-A06	Antioxidant
A08-A07	<b>Metal inhibitors, chelating and sequestering agents</b>
A08-A	<b>Others</b> e.g. viscosity stabiliser, (water) treeing/tracking stabiliser.

A08-B	BLOWING AGENTS AND PORE FORMERS
	For intumescent agents search the appropriate code from this section and the appropriate code from A08-F:.
A08-B01	<b>General</b>
A08-B02	<b>Compounds releasing carbon dioxide</b> e.g. (bi)carbonate.
A08-B03	<b>Compounds releasing nitrogen</b> e.g. azobisisobutyronitrile.
A08-B04	<b>Volatile materials; soluble materials</b> i.e. pore formers.
A08-B04A	. <b>Halohydrocarbon volatile blowing agents</b> Includes perhalogenated compounds and Freons (RTM). 1994 <i>Previous code(s): A08-B04</i>
A08-B04B	. <b>Halogen free volatile blowing agents</b> e.g. pressurised gases, hydrocarbons. 1994 <i>Previous code(s): A08-B04</i>
A08-B	<b>Others</b>
A08-C	CROSSLINKERS, VULCANISERS, ACCELERATORS AND ACTIVATORS FOR ADDITION POLYMERS AND ETHYLENICALLY UNSATD. POLYMERS
A08-C01	<b>General</b>
A08-C02	<b>Activators</b> e.g. ZnO.
A08-C03	<b>Accelerators</b> e.g. mercaptothiazoles, dithiocarbamates, guanidines, aminoaldehyde condensates.
A08-C04	<b>Sulphur (containing) crosslinkers</b> Excluding A08-C05.
A08-C05	<b>Peroxides, persalts and other oxidisers crosslinkers</b> e.g. hydroperoxides, potassium persulphate.
A08-C06	<b>Anti-scorch agents, cure retarders</b>
A08-C07	<b>Olefinically unsaturated monomeric crosslinkers</b> e.g. ethyleneglycol dimethacrylate. Prior to 1977 see A08-C. 1977
A08-C07A	. <b>Styrene crosslinker</b> Prior to 1986 see A08-C07. 1986
A08-C08	<b>Polymeric crosslinker</b> Prior to 1977 see A08-C. 1977



A08-C09	<b>Phenol, Nitrogen or metal containing compounds crosslinkers</b> Excluding A08-C04, A08-C05, A08-C07, A08-C08; e.g. azobisisobutyronitrile, BF3. Prior to 1977 see A08-C.	1977
A08-C09A	. <b>Isocyanate crosslinkers</b> Excluding A08-C04, A08-C05, A08-C07 and A08-C08.  <i>Previous code(s): A08-C09</i>	1994
A08-C10	<b>Water crosslinker</b>  <i>Previous code(s): A08-C</i>	1994
A08-C	<b>Other crosslinkers</b> e.g. non-metallic halonium salts.	
A08-D	<b>CROSSLINKERS AND ACCELERATORS FOR OTHER POLYMERS</b> Excluding those covered by A08-C.	
A08-D01	<b>General</b>	
A08-D02	<b>Acids and anhydrides</b>	
A08-D03	<b>Amines</b> e.g. aminophenols, imidazoles, hexamethylene tetramine, ammonium chloride, including hydrazine and hydrazides.	
A08-D04	<b>Nitrogen containing compounds</b> Excluding A08-D03 ; e.g. polyamides.	
A08-D04A	. <b>(Poly)isocyanates</b> Optionally blocked. Prior to 1986 see A08-D04.	1986
A08-D05	<b>Metal containing compounds and polymers thereof</b> Including Boron, Phosphorus, Silicon. Prior to 1986 see A08-D.	1986
A08-D06	<b>Water crosslinker</b>  <i>Previous code(s): A08-D</i>	1994
A08-D	<b>Others</b> e.g. peroxides, persalts.	
A08-E	<b>DYES AND PIGMENTS</b> i.e. surface colouring agents and bulk colouring agents respectively.	
A08-E01	<b>General</b> Including printing pastes.	
A08-E02	<b>Inorganic pigments</b> Including inorganic delustrants, brighteners e.g. TiO <sub>2</sub> .	
A08-E03	<b>Organic dyes</b>	
A08-E03A	. <b>Azo</b> Prior to 1970 see A08-E03.	
A08-E03A1	.. <b>Monoazo, water soluble</b> Prior to 1977 see A08-E03A.	1970
A08-E03A2	.. <b>Monoazo, water insoluble</b> Prior to 1977 see A08-E03A.	1977
A08-E03A3	.. <b>Dis- and polyazo</b> Prior to 1977 see A08-E03A.	1977
A08-E03B	. <b>Anthraquinone</b> Prior to 1970 see A08-E03.	1970
A08-E03C	. <b>Optical brighteners</b> Including delustrants, flatt(en)ing agents. Prior to 1970 see A08-E03.	1970
A08-E04	<b>Organic pigments</b>	
A08-F	<b>FLAME RETARDANTS</b> For intumescent agents search the appropriate code from this section and the appropriate code from A08-B.	
A08-F01	<b>General</b>	
A08-F02	<b>Antimony containing compounds</b> e.g. Sb <sub>2</sub> O <sub>3</sub> .	
A08-F03	<b>Phosphorus containing compounds</b> e.g. red Phosphorus, tricresyl phosphate.	
A08-F04	<b>Halogen containing compounds</b>	
A08-F04A	. <b>Polymeric</b> e.g. chlorinated polyethylene. Prior to 1977 see A08-F04.	1977
A08-F04B	. <b>Non-polymeric aromatic or heterocyclic compounds</b> With direct halogen-ring bond(s) e.g. tetrabromo bisphenol A. Prior to 1977 see A08-F04.	1977
A08-F04C	. <b>Non-polymeric (cyclo)aliphatic compounds</b> e.g. carbon tetrabromide, hexabromocyclododecane. Prior to 1977 see A08-F04.	1977
A08-F05	<b>Aluminium hydroxide</b>  <i>Previous code(s): A08-F</i>	1994
A08-F	<b>Others</b> Including smoke inhibitors.	

<b>A08-M</b>	<b>MISCELLANEOUS AGENTS OR ADDITIVES</b>
<b>A08-M01</b>	<b>Adhesion improvers, subbing agents, bonding aids</b> i.e. agents to improve the adhesiveness between polymer and substrate.
<b>A08-M01A</b>	. <b>Dyeing and printing aids, dye receptiveness improving agents, dye levellers, dye/pigment dispersants</b> Including polymeric. Prior to 1970 see A08-M01.
	1970
<b>A08-M01B</b>	. <b>Polymeric adhesion improvers</b> Prior to 1977 see A08-M01.
	1977
<b>A08-M01C</b>	. <b>Acids, metal compounds adhesion improvers</b> e.g. organo-Aluminium or Titanium compounds. Prior to 1977 see A08-M01.
	1977
<b>A08-M01D</b>	. <b>Silicon containing compounds adhesion improvers</b> e.g. alkoxy silanes, vinyl silanes. Prior to 1977 see A08-M01.
	1977
<b>A08-M02</b>	<b>Antiseptic, fungicidal, animal repellents</b> e.g. Tin compounds, Copper compounds.
<b>A08-M03</b>	<b>Lubricants</b> e.g. silicones, metal stearates.
<b>A08-M03A</b>	. <b>Lubricants and oiling agents for fibres and textiles</b> Prior to 1986 see A08-M03.
	1986
<b>A08-M03B</b>	. <b>Mould release agents; internal lubricants</b> Prior to 1986 see A08-M03.
	1986
<b>A08-M04</b>	<b>Odorants, deodorants</b>
<b>A08-M05</b>	<b>Tackifiers</b>
<b>A08-M06</b>	<b>Viscosity modifiers</b> Excluding A08-A; including thixotropic agents.
<b>A08-M07</b>	<b>Antiblocking agents, dusting agents, slip agents</b> i.e. materials applied to polymer surfaces to reduce their adhesiveness e.g. talc. Prior to 1970 see A08-M.
	1970
<b>A08-M08</b>	<b>Prodegradants, peptising agents</b> Prior to 1977 see A08-M.
	1977

<b>A08-M09</b>	<b>Agents affecting mechanical, electrical, optical, magnetic and thermal properties</b> Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A08-M.
	1977-1985
<b>A08-M09A</b>	. <b>Electrical, magnetic</b> Prior to 1986 see A08-M09.
	1986
<b>A08-M09B</b>	. <b>Mechanical</b> Prior to 1986 see A08-M09.
	1986
<b>A08-M09C</b>	. <b>Optical; thermal</b> Prior to 1986 see A08-M09.
	1986
<b>A08-M10</b>	<b>Other specifically functional agents</b> Including nucleating agents. Prior to 1977 see A08-M.
	1977
<b>A08-M</b>	<b>Others</b> Includes additives of unspecified function.
<b>A08-P</b>	<b>PLASTICISERS AND EXTENDERS</b>
<b>A08-P01</b>	<b>General</b>
<b>A08-P02</b>	<b>Phthalates</b>
<b>A08-P03</b>	<b>Other aromatic acid esters</b> Excluding A08-P02; e.g. trimellitates.
<b>A08-P04</b>	<b>Aliphatic acid esters</b> e.g. adipates, sebacates.
<b>A08-P05</b>	<b>Inorganic acid esters</b> e.g. phosphates.
<b>A08-P06</b>	<b>Hydroxy acid esters</b> e.g. citrates.
<b>A08-P07</b>	<b>Epoxy compounds</b> e.g. epoxidised soybean oil.
<b>A08-P08</b>	<b>Coal tar fractions, oils, waxes, hydrocarbons</b> Excluding A08-P02 to A08-P07.
<b>A08-P</b>	<b>Others</b> e.g. glycerine, thioethers.
<b>A08-R</b>	<b>FILLERS AND REINFORCING AGENTS</b>
<b>A08-R01</b>	<b>General</b>
<b>A08-R02</b>	<b>Asbestos</b>
<b>A08-R03</b>	<b>Carbon</b> Including carbon black, graphite (non-fibrous).
<b>A08-R03A</b>	. <b>Fibrous</b> Prior to 1986 see A08-R03.
	1986
<b>A08-R04</b>	<b>Glass</b> Any form, including fibres, flake, powder, microspheres. See also A12-S08B.

A08-R05	<b>Metal</b> Including Boron, Phosphorus, Silicon; excluding compounds of metals.	
A08-R06	<b>Silica and silicates</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued. 1966-1985	
A08-R06A	. <b>Silica</b> Including SiO <sub>2</sub> , sand, quartz, white carbon, aerosil, silicic acid, diatomite. Prior to 1986 see A08-R06. 1986	
A08-R06B	. <b>Silicates</b> Including talc, mica, kaolin, clay, zeolite, wollastonite. Prior to 1986 see A08- R06. 1986	
A08-R07	<b>Cellulosic</b> Including wood powder/sawdust, shavings. Not to be searched for chipboard, hardboard or fibreboard, for which see A12- A04+.	
A08-R08	<b>Polymeric</b>	
A08-R08A	. <b>Fibrous polymeric fillers</b>  <i>Previous code(s): A08-R08</i> 1994	
A08-R08B	. <b>Particulate polymeric fillers</b>  <i>Previous code(s): A08-R08</i> 1994	
A08-R09	<b>Whiskers</b> e.g. potassium titanate. Prior to 1986 see A08-R. 1986	
A08-R	<b>Others</b> Including metal compounds e.g. CaCO <sub>3</sub> , BaSO <sub>4</sub> .	
A08-S	<b>SURFACE ACTIVE AGENTS</b> Excluding adhesion improvers, tackifiers, lubricants, antiblocking agents, for which see A08-M:.	
A08-S01	<b>General</b>	
A08-S02	<b>Solvents; swelling agents</b>	
A08-S03	<b>Anti-foaming agents</b>	
A08-S04	<b>Anti-static agents</b>	
A08-S05	<b>Emulsifiers; wetting agents</b>	
A08-S06	<b>Protective colloids</b>	
A08-S07	<b>Foam stabilisers; cell control agents</b> Prior to 1977 see A08-S. 1977	
A08-S08	<b>Absorption agents; repellance agents</b> Including scale inhibitors. For use of polymeric repellent finishes on fibres see A12-G03 only. Prior to 1977 see A08-S. 1977	
A08-S	<b>Others</b> Including coagulants.	

## A09 PROPERTIES, ANALYSIS, TESTING, CONTROL

A09-A	<b>PROPERTIES</b> Coded only where the particular property is of exceptional importance. Properties resulting from a functional additive are not coded. However, properties related to polymer structure are coded.	
A09-A01	<b>Non-flammability</b>	
A09-A01A	. <b>Thermal properties</b> Including heat stability. Prior to 1970 see A09-A01. 1970	
A09-A02	<b>Optical properties</b> Including transparency and refractive index.	
A09-A02A	. <b>Liquid crystal, nematic properties</b> e.g. optically anisotropic melt. Prior to 1986 no specific code was available. 1986	
A09-A03	<b>Electrical</b> e.g. (non)-conductivity. Including for (doped) polyacetylenes.	
A09-A03A	. <b>Electroluminescent property</b> 2002	
A09-A04	<b>Magnetic properties</b>	
A09-A05	<b>Mechanical</b>	
A09-A05A	. <b>Impact strength, toughness</b> Prior to 1986 see A09-A05. 1986	
A09-A05B	. <b>Shape-memory property</b> 2005	
A09-A06	<b>Dyeability, printability</b> Prior to 1977 see A09-A. 1977	
A09-A07	<b>Biodegradability</b>  <i>Previous code(s): A09-A</i> 1994	
A09-A08	<b>Absorption/adsorption properties</b>  <i>Previous code(s): A09-A</i> 1994	
A09-A09	<b>Permeability properties</b> Includes semipermeability and gas barrier properties. 1994  <i>Previous code(s): A09-A</i>	
A09-A	<b>Others</b> e.g. fungicidal.	
A09-B	<b>ANALYSIS</b>	
A09-B	<b>Analysis</b> i.e. of chemical constitution.	
A09-C	<b>TESTING</b>	
A09-C	<b>Testing</b> i.e. of physical properties.	

A09-D	<b>EQUIPMENT CONTROL, SAFETY DEVICES</b>	
A09-D	<b>Equipment control, safety devices</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued.	1966-1985
A09-D01	<b>Moulding processes</b> i.e. involving moulds e.g. injection. Prior to 1986 see A09-D.	1986
A09-D02	<b>Involving extruders</b> Prior to 1986 see A09-D.	1986
A09-D03	<b>Others</b> Prior to 1986 see A09-D.	1986

## A10 POLYMERISATION, POLYMER MODIFICATION

Addition (co)polymerisation of alkylene oxides, lactones, lactams, alkylene-imines is coded under A10-D: section only. For microsuspension polymerisation see A10-B03 and A10-B05. For inverse phase polymerisation see A10-B02, A10-B05 and A10-B. For descaling of plant see A10-G02. For descaling additive see also A08-S08. Treatment of effluent following polymerisation is coded under A10-G.

A10-A	<b>NATURAL POLYMER PRODUCTION</b>
A10-A	<b>Natural polymer production</b> Excluding modification of natural polymers; including petroleum resin production, extraction of natural polymers e.g. tapping of rubber trees.

A10-B	<b>ADDITION (CO)POLYMERISATION</b> Excluding A10-C.
A10-B01	<b>General</b> Including equipment.
A10-B02	<b>Bulk</b>
A10-B03	<b>Emulsion</b>
A10-B04	<b>Solution</b>
A10-B05	<b>Suspension</b>
A10-B06	<b>Irradiation</b>
A10-B07	<b>Interfacial</b>
A10-B08	<b>Oligomerisation; telomerisation</b> Including dimerisation. Prior to 1970 see A10-B.
	1970
A10-B	<b>Others</b> e.g. gaseous phase, high pressure.

A10-C	<b>ORDERED COPOLYMERISATION BY ADDITION</b>
A10-C01	<b>General</b>
A10-C02	<b>Block copolymerisation</b>
A10-C03	<b>Graft copolymerisation</b>
A10-C03A	. <b>Grafting onto formed polymeric substrates</b> Including fibres and articles. Prior to 1970 see A10-C03.
	1970
A10-C03B	. <b>By emulsion or suspension processes</b> Prior to 1977 see A10-C03 and A10-C03A.
	1977
A10-C03C	. <b>By solution, bulk or irradiation initiated processes</b> Prior to 1977 see A10-C03 and A10-C03A.
	1977

<b>A10-D</b>	<b>CONDENSATION POLYMERISATION</b>	
<b>A10-D01</b>	<b>Interfacial</b>	
<b>A10-D02</b>	<b>Ordered cocondensation</b>	
<b>A10-D03</b>	<b>Ring opening or closure</b> Prior to 1970 see A10-D.	1970
<b>A10-D04</b>	<b>Equipment</b> Prior to 1970 see A10-D01, A10-D02 and A10-D appropriately.	1970
<b>A10-D05</b>	<b>Polyesterification</b> Includes carbonate bond formation.  <i>Previous code(s): A10-D+</i>	1994
<b>A10-D06</b>	<b>Electrolytic/oxidative polymerisation</b>  <i>Previous code(s): A10-D</i>	1994
<b>A10-D</b>	<b>Others</b>	
<b>A10-E</b>	<b>CHEMICAL MODIFICATION</b> Including modified polymers. Modified polymers are always searched in A10-E:. Whenever the modification process is described, the unmodified polymer is additionally searchable. For imidation search both A10-E14 and A10-E17. Maleinised resins are coded A10-E23, e.g. maleinised rosin, polyisobutenyl maleic anhydride etc. Devulcanised polymer is coded A10-E. Vinyl silane modified polymer is coded A10-E03 and A10-E22A. If graft copolymerisation onto the polymer is involved then A4-A and A10-C03+ also coded.	
<b>A10-E01</b>	<b>General</b>	
<b>A10-E02</b>	<b>Acetalisation</b> Used for polyvinyl acetal, butyral, formal and polyvinyl ketals.	
<b>A10-E03</b>	<b>Alkylation; arylation</b> i.e. formation of C-C bond. e.g. haloalkylation, aminoarylation.	
<b>A10-E04</b>	<b>Dehalogenation; (de) hydrohalogenation</b>	
<b>A10-E04A</b>	<b>Halogenation</b> Prior to 1986 see A10-E04.	1986
<b>A10-E05</b>	<b>Depolymerisation; degradation</b>	
<b>A10-E05A</b>	<b>Pyrolysis of waste polymeric material</b> Prior to 1977 see A10-E05.	1977
<b>A10-E05B</b>	<b>Carbonisation</b> Excluding A10-E05A. Prior to 1977 see A10-E05.	1977
<b>A10-E05C</b>	<b>Depolymerisation to monomers or oligomers</b> Prior to 1977 see A10-E05.	1977
<b>A10-E06</b>	<b>Epoxidation</b> e.g. epoxidised polybutadiene. For epoxidised novolac see A10-E08C.	
<b>A10-E07</b>	<b>Esterification</b>	
<b>A10-E07A</b>	<b>By unsaturated polybasic acid (or derivatives)</b> e.g. maleic acid. Prior to 1977 see A10-E07.	1977
<b>A10-E07B</b>	<b>By unsaturated monobasic acid (or derivatives)</b> Including acrylated epoxy resins. Prior to 1977 see A10-E07.	1977
<b>A10-E07C</b>	<b>By saturated acid (or derivatives)</b> Prior to 1977 see A10-E07.	1977
<b>A10-E08</b>	<b>Etherification</b>	
<b>A10-E08A</b>	<b>(Cyclo)aliphatic ether of polyether containing oxyethylene and/or oxypropylene units only</b> Prior to 1977 see A10-E08.	1977
<b>A10-E08B</b>	<b>Other ethers of polyoxyalkylene glycols</b> Prior to 1977 see A10-E08.	1977
<b>A10-E08C</b>	<b>Other etherified polymers</b> Including 'alkylated' melamine, e.g. (methoxy) methylolated melamine; epoxidised phenoplasts. Prior to 1977 see A10-E08.	1977
<b>A10-E09</b>	<b>Hydrolysis, saponification, alcoholysis, glycolysis</b> For (partially) hydrolysed polyvinyl acetate or ethylene vinyl acetate copolymer see A10-E09A or A10-E09B+ appropriately.	
<b>A10-E09A</b>	<b>Polyvinyl alcohol compositions</b> Prior to 1970 see A10-E09.	1970
<b>A10-E09B</b>	<b>Polyvinyl alcohol uses</b> Prior to 1970 see A10-E09.	1970
<b>A10-E09B1</b>	<b>Adhesives and binders; coatings</b> Prior to 1986 see A10-E09B.	1986
<b>A10-E09B2</b>	<b>Optical, (electro) photographic, laboratory; medical, dental, cosmetic and veterinary</b> Prior to 1986 see A10-E09B.	1986
<b>A10-E10</b>	<b>Electric discharge, ultrasonic treatment and irradiation</b> Including by UV and by ionising rays; excluding for crosslinking, for which see A11-C02B.	

A10-E11	<b>Oxidation; ozonisation</b>	1986
A10-E12	<b>Sulphonation or sulphohalogenation</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued.	1977
	1966-1985	
A10-E12A	. <b>Sulphonation</b> Prior to 1986 see A10-E12.	1986
A10-E12B	. <b>Halosulphonation</b> Prior to 1986 see A10-E12.	1986
A10-E13	<b>Hydrogenation</b> Including reduction by other means.	1977
A10-E14	<b>Cyclisation</b>	
A10-E15	<b>Amidation, amination</b> Applied from the start of CPI (1970) to the end of 1976 and was then discontinued. Prior to 1970 see A10-E.	1970-1976
A10-E16	<b>Incorporation of metal atoms</b> Including Boron, Phosphorus and Silicon. Applied from the start of CPI (1970) to the end of 1976 and was then discontinued. Prior to 1970 see A10-E.	1970-1976
A10-E17	<b>Amidation</b> Prior to 1977 see A10-E15.	1977
A10-E17A	. <b>Amidation of epoxy resins or polyethers</b>	2002
A10-E17B	. <b>Amidation of other polymers</b>	2002
A10-E18	<b>Amination of epoxy resins or polyethers</b> Prior to 1977 see A10-E15.	1977
A10-E19	<b>Amination of other polymers</b> Prior to 1977 see A10-E15.	1977
A10-E20	<b>Incorporation of phosphorus</b> Prior to 1977 see A10-E16.	1977
A10-E21	<b>Incorporation of alkali(ne earth) metal</b> Including NH <sub>4</sub> <sup>+</sup> . Prior to 1977 see A10-E16.	1977
A10-E21A	. <b>Natural polymers</b> Prior to 1986 see A10-E21.	1986
A10-E21B	. <b>Mono- or di-carboxylic unsaturated acid (co)polymers</b> Prior to 1986 see A10-E21.	1986
A10-E22	<b>Incorporation of other metal(loid)s</b> i.e. excluding A10-E20 and A10-E21+; including Boron. Prior to 1977 see A10-E16.	1977
A10-E22A	. <b>Incorporation of Silicon</b> Prior to 1986 see A10-E22.	
A10-E23	<b>Forming hydroxy or carboxy groups other than by hydrolysis</b> Prior to 1977 see A10-E.	1977
A10-E24	<b>Nitration; urethanisation; sulphation; sulphurisation; xanthation; thio group formation</b> Including acrylated polyurethanes prepared from e.g. isocyanate terminated prepolymers and hydroxyalkyl acrylates. Prior to 1977 see A10-E.	1977
A10-E	<b>Others</b>	
A10-G	<b>OTHER MISCELLANEOUS PROCESSES</b>	
A10-G01	<b>Purification and concentration of polymer</b> Applied from the start of Plasdoc to the end of 1985 and was then discontinued.	1966-1985
A10-G01A	. <b>Monomer, solvent, catalyst recovery/removal from polymer, including catalyst destruction; devolatalisation</b> Prior to 1986 see A10-G01.	1986
A10-G01B	. <b>Other purification and concentration of polymer</b> Prior to 1986 see A10-G01.	1986
A10-G02	<b>Prevention/removal of scale on polymerisation vessels</b> Including use of additives, coatings etc. Prior to 1986 see A10-G.	1986
A10-G	<b>Others</b> Including cleaning of polymerisation vessels.	

## A11 PROCESSING POLYMERS INCLUDING EQUIPMENT

<b>A11-A</b>	<b>PRELIMINARY PROCESSES</b>	
<b>A11-A01</b>	<b>Colouring, bleaching</b>	
<b>A11-A01A</b>	. <b>With specific compositions</b> Prior to 1970 see A11-A01.	1970
<b>A11-A01B</b>	. <b>Processes</b> Prior to 1970 see A11-A01.	1970
<b>A11-A02</b>	<b>Heating</b> Including pre-heating and drying; excluding annealing etc. for which see A11-B02+ and crosslinking for which see A11-C02+.	
<b>A11-A02A</b>	. <b>Heating film/sheet, divided forms</b> e.g. powders, fibre or fabric. Prior to 1977 see A11-A02.	1977
<b>A11-A02B</b>	. <b>Heating other forms</b> Excluding A11-A02A; e.g. moulded articles, tubes, parisons. Prior to 1977 see A11-A02.	1977
<b>A11-A02C</b>	. <b>Cooling</b> Excluding A11-B07D. Prior to 1977 see A11-A02.	1977
<b>A11-A03</b>	<b>Mixing, compounding, homogenising, blending</b>	
<b>A11-A03A</b>	. <b>Equipment</b> Prior to 1970 see A11-A03.	1970
<b>A11-A04</b>	<b>Divided forms of polymer production</b> e.g. by granulation, grinding to powders, pelleting.	
<b>A11-A05</b>	<b>Cutting, sawing and other machining</b> Excluding A11-A04.	
<b>A11-A05A</b>	. <b>Perforating, punching, slitting, drilling holes; cutting tubes and tyres</b> Prior to 1977 see A11-A05.	1977
<b>A11-A05B</b>	. <b>Deflashing and burr removal; cutting recesses, grooves, threads, etc., in surfaces</b> Prior to 1977 see A11-A05.	1977
<b>A11-A05C</b>	. <b>Cutting films and fabrics</b> e.g. during bag making. Prior to 1977 see A11-A05.	1977
<b>A11-A</b>	<b>Others</b> Including methods of feeding raw materials, degassing, vacuum hoppers.	

<b>A11-B</b>	<b>FORMING PROCESSES</b>	
<b>A11-B01</b>	<b>General</b>	
<b>A11-B02</b>	<b>Annealing, crystallising, heat-setting, orienting, drawing, fibrillating</b>	
<b>A11-B02A</b>	. <b>Orienting/stretching film</b> Prior to 1970 see A11-B02.	1970
<b>A11-B02B</b>	. <b>Orienting/stretching fibres</b> Prior to 1970 see A11-B02.	1970
<b>A11-B02C</b>	. <b>Heat-setting films/fibres</b> Prior to 1970 see A11-B02.	1970
<b>A11-B02D</b>	. <b>Crimping, bulking</b> Prior to 1977 see A11-B02C.	1977
<b>A11-B02E</b>	. <b>Shrinking</b> Prior to 1977 see A11-B02C.	1977
<b>A11-B03</b>	<b>Calendering</b>	
<b>A11-B04</b>	<b>Casting; slush-, dip-, and rotary moulding, general</b> Including with monomer or condensant and polymerising.	
<b>A11-B04A</b>	. <b>By rotational moulding, centrifugal casting</b> Prior to 1977 see A11-B04.	1977
<b>A11-B04B</b>	. <b>By other specific moulding methods</b> e.g. dip moulding, shell moulding; excluding A11-B04C. Prior to 1977 see A11-B04.	1977
<b>A11-B04C</b>	. <b>Forming films, sheets, lace</b> Prior to 1977 see A11-B04.	1977
<b>A11-B05</b>	<b>Coating</b> Including spreading, encapsulation.	
<b>A11-B05A</b>	. <b>Electrodeposition, dipping</b> Including fluidised bed. Prior to 1970 see A11-B05.	1970
<b>A11-B05B</b>	. <b>Coating by spraying, flocking, extrusion, general</b> Prior to 1970 see A11-B05.	1970
<b>A11-B05B1</b>	.. <b>By spraying</b> Prior to 1986 see A11-B05B.	1986
<b>A11-B05B2</b>	.. <b>By extrusion</b> Prior to 1986 see A11-B05B.	1986

A11-B05C	<ul style="list-style-type: none"> <li><b>With monomer or condensant and polymerising</b> Excluding A11-B04+; i.e. leaving a finished coating. Prior to 1977 see A11-B05, A11-B05A and A11-B05B appropriately.</li> </ul>	A11-B08A	<ul style="list-style-type: none"> <li><b>Vacuum assisted forming of sheet or film</b> Prior to 1977 see A11-B08.</li> </ul>
	1977		1977
A11-B05D	<ul style="list-style-type: none"> <li><b>With dispersion, solution or paste</b> Prior to 1977 see A11-B05, A11-B05A and A11-B05B appropriately.</li> </ul>	A11-B08B	<ul style="list-style-type: none"> <li><b>Forming of sheet or film</b> Excluding A11-B08A. Prior to 1977 see A11-B08.</li> </ul>
	1977		1977
A11-B05E	<ul style="list-style-type: none"> <li><b>With powder, melt or foam</b> Prior to 1977 see A11-B05, A11-B05A and A11-B05B appropriately.</li> </ul>	A11-B08C	<ul style="list-style-type: none"> <li><b>Forming from tube or pipe</b> Including fittings. Prior to 1977 see A11-B08.</li> </ul>
	1977		1977
A11-B06	<b>Expanding, foaming, pore-forming</b>	A11-B09	<b>Laminating; lay-up of reinforced plastics</b> See also A12-S08+.
A11-B06A	<ul style="list-style-type: none"> <li><b>To form specific goods</b> Prior to 1970 see A11-B06.</li> </ul>	A11-B09A	<ul style="list-style-type: none"> <li><b>To form specific goods</b> Prior to 1970 see A11-B09.</li> </ul>
	1970		1970
A11-B06B	<ul style="list-style-type: none"> <li><b>Involving extrusion</b> Excluding A11-B06A. Prior to 1977 see A11-B06 and A11-B06A appropriately.</li> </ul>	A11-B09A1	<ul style="list-style-type: none"> <li><b>Involving fibrous/filament reinforcement</b> Prior to 1986 see A11-B09A.</li> </ul>
	1977		1986
A11-B06C	<ul style="list-style-type: none"> <li><b>Involving moulding</b> Excluding A11-B06A. Prior to 1977 see A11-B06 and A11-B06A appropriately.</li> </ul>	A11-B09A2	<ul style="list-style-type: none"> <li><b>Involving non-fibrous material</b> Excluding coextrusion laminating of film, for which see A11-B07A. Prior to 1986 see A11-B09A.</li> </ul>
	1977		1986
A11-B06D	<ul style="list-style-type: none"> <li><b>Involving other specific methods</b> e.g. by dissolution, sintering; excluding A11-B06A. Prior to 1977 see A11-B06 and A11-B06A appropriately.</li> </ul>	A11-B09B	<ul style="list-style-type: none"> <li><b>Decorative laminate production; chip-, fibre-, card-board and plywood</b> Prior to 1977 see A11-B09.</li> </ul>
	1977		1977
A11-B07	<b>Extrusion and coextrusion</b> Excluding coating by extrusion for which see A11-B05B2, extrusion spinning for which see A11-B15+ and extrusion foaming for which see A11-B06B.	A11-B09C	<ul style="list-style-type: none"> <li><b>Fibre reinforced plastics (FRP) prodn., filament winding, pultrusion</b> Excluding A11-B09A+. Prior to 1977 see A11-B09.</li> </ul>
			1977
A11-B07A	<ul style="list-style-type: none"> <li><b>Of film and sheet</b> Including inflation forming tubular film. Prior to 1970 see A11-B07.</li> </ul>	A11-B09D	<ul style="list-style-type: none"> <li><b>Laminating non-fibrous bodies</b> Excluding A11-B09A+; excluding coextrusion laminating of film, for which see A11-B07A. Prior to 1977 see A11-B09.</li> </ul>
	1970		1977
A11-B07B	<ul style="list-style-type: none"> <li><b>Of tube and other profiles</b> Excluding A11-B07A. Prior to 1970 see A11-B07.</li> </ul>	A11-B09E	<ul style="list-style-type: none"> <li><b>Other laminating processes</b> Excluding A11-B09A+. Prior to 1977 see A11-B09.</li> </ul>
	1970		1977
A11-B07C	<ul style="list-style-type: none"> <li><b>Other extrusion</b> Prior to 1977 see A11-B07, A11-B07A and A11-B07B appropriately.</li> </ul>	A11-B10	<b>Blow moulding</b> Excluding A11-B07A.
	1977		
A11-B07D	<ul style="list-style-type: none"> <li><b>Associated processes</b> e.g. cooling, haul- off. Prior to 1977 see A11-B07, A11-B07A and A11-B07B appropriately.</li> </ul>	A11-B11	<b>Compression and transfer moulding</b>
	1977	A11-B12	<b>Injection moulding</b>
A11-B08	<b>Forming</b> Including corrugating, winding strips to form tube.	A11-B12A	<ul style="list-style-type: none"> <li><b>To form specific goods</b> Prior to 1970 see A11-B12.</li> </ul>
			1970
		A11-B12B	<ul style="list-style-type: none"> <li><b>Moulds</b> Prior to 1977 see A11-B12 and A11-B12A appropriately.</li> </ul>
			1977



A11-B12C	. <b>Equipment</b> Excluding A11-B12A and A11-B12B. Prior to 1977 see A11-B12 and A11-B12A appropriately. 1977	A11-C01B	. <b>Heat sealing, welding, general</b> e.g. ultrasonic, microwave. Prior to 1970 see A11-C01. 1970
A11-B13	<b>Pressing (between flat platens)</b>	A11-C01C	. <b>Other bonding to make specific goods</b> Prior to 1970 see A11-C01. 1970
A11-B14	<b>Sintering</b> Excluding A11-B06D.	A11-C01D	. <b>Other bonding, general</b> Prior to 1970 see A11-C01. 1970
A11-B15	<b>Spinning</b> Including associated processes, e.g. take-off.	A11-C02	<b>Crosslinking, curing, vulcanisation</b>
A11-B15A	. <b>Heads, die design, spinnerettes</b> Prior to 1970 see A11-B15. 1970	A11-C02A	. <b>Rubber vulcanisation</b> Prior to 1970 see A11-C02. 1970
A11-B15B	. <b>Melt</b> Prior to 1970 see A11-B15. 1970	A11-C02A1	.. <b>Tyre vulcanisation</b> Prior to 1986 see A11-C02A. 1986
A11-B15B1	.. <b>High speed melt spinning</b> <i>Previous code(s): A11-B15B</i> 1994	A11-C02B	. <b>Crosslinking with irradiation</b> Excluding A11-C02A and A11-C02A1. Prior to 1977 see A11-C02. 1977
A11-B15C	. <b>Solution</b> i.e. wet or dry. Prior to 1970 see A11-B15. 1970	A11-C02C	. <b>Crosslinking involving coating and/or extrusion</b> Excluding A11-C02A and A11-C02A1. Prior to 1977 see A11-C02. 1977
A11-B16	<b>Stereographic moulding</b> Used for processes that produce a three-dimensional polymer form by sequential polymerising or curing, usually by computer control, onto a previously polymerised or cured surface, thus "building up" a three-dimensional moulding. Coded with A11-C02D. See also A10-B+, A10-C+, A10-D+ and A11-C02B if appropriate. 1994 <i>Previous code(s): A11-B</i>	A11-C02D	. <b>Crosslinking involving moulding and/or foaming</b> Excluding A11-C02A and A11-C02A1. Prior to 1977 see A11-C02. 1977
A11-B17	<b>Tyre manufacture</b> All processes. See also A11-C02A1 and A12-T01A. 1994 <i>Previous code(s): A11-B</i>	A11-C03	<b>Scrap recovery</b> Including retreading of tyres; reclaiming and recycling as well as use of reclaimed/recycled polymer.
A11-B	<b>Others</b> Including insert incorporation.	A11-C03A	. <b>Involving shredding, cutting, pulverising, granulating</b> Prior to 1986 see A11-C03. 1986
A11-C	<b>OTHER MISCELLANEOUS PROCESSES</b> i.e. on (semi-)finished polymers.	A11-C04	<b>Surface treatment</b> Including flame treatment.
A11-C01	<b>Bonding, glueing, welding, heat-sealing, riveting</b>	A11-C04A	. <b>Painting, printing</b> Prior to 1970 see A11-C04. 1970
A11-C01A	. <b>Heat sealing, welding to make specific goods</b> e.g. ultrasonic, microwave. Prior to 1970 see A11-C01. 1970	A11-C04B	. <b>Metallising; coating with other materials, general</b> Prior to 1970 see A11-C04. 1970
A11-C01A1	.. <b>Involving film, sheet; packaging</b> Prior to 1986 see A11-C01A. 1986	A11-C04B1	.. <b>Metallising</b> Prior to 1986 see A11-C04B. 1986
		A11-C04B2	.. <b>Coating with other materials</b> Excluding A11-C04B1. Prior to 1986 see A11-C04B. 1986

A11-C04C	. <b>Embossing</b> Prior to 1977 see A11-C04.	1977
A11-C04D	. <b>Chemical treatment</b> Including etching. Prior to 1977 see A11-C04.	1977
A11-C04E	. <b>Corona discharge, plasma treatment; irradiation</b> Prior to 1986 see A11-C04.	1986
A11-C05	<b>Textile processes</b> Excluding specific processes in A11-A; A11-B; and A11-C: Prior to 1970 no specific code was available. References may be found under A11-A, A11-B, and A11-C:.	1970
A11-C05A	. <b>Producing fabrics</b> Prior to 1977 see A11-C05.	1977
A11-C05A1	.. <b>Melt blowing</b> <i>Previous code(s): A11-C05A</i>	1994
A11-C05B	. <b>Twisting, winding of fibres and yarns</b> Prior to 1977 see A11-C05.	1977
A11-C05C	. <b>Other processing of fibres and yarns</b> Prior to 1977 see A11-C05.	1977
A11-C05C1	.. <b>Flash spinning</b> <i>Previous code(s): A11-C05</i>	1994
A11-C06	<b>Ejection of mouldings; conveying, winding and storage of plastics articles</b> Prior to 1977 see A11-C.	1977
A11-C07	<b>Waste treatment; pollution control</b> Prior to 1977 see A11-C.	1977
A11-C	<b>Other miscellaneous processes</b> Including repair of articles (excluding retreading of tyres), sterilisation, wire insulation removal, cleaning of polymer handling/forming/ processing plant; excluding cleaning of polymerisation vessels for which see A10-G.	

## A12 POLYMER APPLICATIONS

Where the polymer use as an adhesive and/or coating applies to a specific use in any other section (A12-C: through A12-W:), then the appropriate code from that section only is applied e.g. for bottle coatings see A12-PO6A only.

A12-A	<b>ADHESIVES AND BINDERS</b> Excluding sealants for which see A12-R08. For binders, when a specific use of the binder is given, only that use is searchable.	
A12-A	<b>General adhesive applications</b> i.e. unspecified compositions for general adhesive applications.	
A12-A01	<b>Adhesive tape</b> Excluding electrical insulation tape for which see A12-E03; including surgical tape.	
A12-A01A	. <b>Adhesive on a carrier (excluding tape)</b>	1994
A12-A02	<b>Binders for core moulds, earth consolidation</b>	
A12-A03	<b>Abrasive paper, grinding wheels</b> Including all abrasive compositions.	
A12-A04	<b>Board, general</b> Prior to 1970 see A12-A.	1970
A12-A04A	. <b>Decorative laminate; decorative board</b> Prior to 1977 see A12-A04.	1977
A12-A04B	. <b>Chip-, particle- or fibre-board</b> Prior to 1977 see A12-A04.	1977
A12-A04C	. <b>Other cellulosic products</b> Including plywood. Prior to 1977 see A12-A04.	1977
A12-A04D	<b>Laminates, otherwise unspecified</b>	2002
A12-A05	<b>Adhesive and binder compsns.</b> Excluding A12-A02, A12-A03 and A12-A04+; this is only for general adhesive and binder applications. When a specific use is given, only that use is searchable. Prior to 1970 see A12-A.	1970
A12-A05A	. <b>Natural polymer, natural rubber or diene rubber based</b> Prior to 1970 see A12-A.	1970
A12-A05B	. <b>Addition polymer based</b> Excluding diene rubber. Prior to 1970 see A12-A.	1970

A12-A05B1	.. <b>Acrylic</b> Prior to 1986 see A12-A05B.	1986	A12-B01F	. <b>Vinyl carboxylate or halogen containing addition polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately.	1977
A12-A05B2	.. <b>Polyolefins</b> Monoolefinic hydrocarbon; including ethylene-vinyl acetate copolymer. Prior to 1986 see A12-A05B.	1986	A12-B01G	. <b>Other addition polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately.	1977
A12-A05B3	.. <b>Vinyl halide and/or vinyl carboxylate (co)polymers</b> Excluding ethylene-vinyl acetate copolymer for which see A12-A05B2. Prior to 1986 see A12-A05B.	1986	A12-B01H	. <b>Polyesters</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately.	1977
A12-A05C	. <b>Epoxy resin based</b> Prior to 1970 see A12-A.	1970	A12-B01J	. <b>Phenoplasts or aminoplasts</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately.	1977
A12-A05D	. <b>Aminoplast or phenoplast based</b> Prior to 1977 see A12-A05.	1977	A12-B01K	. <b>Polyurethanes</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately.	1977
A12-A05E	. <b>Polyester based</b> Prior to 1977 see A12-A05.	1977	A12-B01L	. <b>Epoxy resins</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately.	1977
A12-A05F	. <b>Polyurethane or polyurea based; other resins from isocyanates</b> Prior to 1977 see A12-A05.	1977	A12-B01V	. <b>Other condensation polymers</b> Prior to 2006 see A12-B01X.	2006
A12-B	<b>COATINGS AND PAINTS</b> Excluding textile finishes for which see A12-G+; including polishes. The codes A12-B01+ are applied when the substrate is specified. The codes A12-B01, A12-B01A and A12-B01B are applied when neither the polymer nor the substrate is specified. Search only the substrate on which the coating is directly applied.		A12-B01W	. <b>General addition polymer coating</b> Indexed for the generic case or when three or more codes are required from the A12-B01+ hierarchy.  <i>Previous code(s): A12-B01+</i>	1994
A12-B01	<b>General</b>		A12-B01X	. <b>General condensation polymer coating</b> Indexed for the generic case and where three or more codes are required from the A12-B01+ hierarchy.  <i>Previous code(s): A12-B01+</i>	1994
A12-B01A	. <b>Emulsion paints, latex paints, water based lacquers, general</b> Prior to 1970 see A12-B01.	1970	A12-B02	<b>Fibres, cloth and felts</b> Excluding finishes for which see A12-G: section or A12-S05S.	
A12-B01B	. <b>Varnishes, solvent-based lacquers, general</b> Prior to 1970 see A12-B01.	1970	A12-B02A	. <b>Leathercloth, synthetic leather</b> Prior to 1970 see A12-B02.	1970
A12-B01C	. <b>Inorganic polymers, including silicon polymers; diene or polyene polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately.	1977	A12-B02B	. <b>Polymer-bonded non-woven fabrics</b> Prior to 1970 see A12-B02.	1970
A12-B01D	. <b>Natural polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately.	1977	A12-B03	<b>Paper, cardboard</b> Excluding for use in paper making for which see A12-W06+.	
A12-B01E	. <b>Acrylic polymers</b> Prior to 1977 see A12-B01, A12-B01A and A12-B01B appropriately.	1977	A12-B03A	. <b>Compositions</b> Prior to 1970 see A12-B03.	1970

A12-B04	<b>On metal</b> Excluding on electric wire, for which see A12-E02+.	
A12-B04A	<ul style="list-style-type: none"> <li><b>Compositions</b> Applied from the start of CPI (1970) to the end of 1976 and was then discontinued. Prior to 1970 see A12-B04.</li> </ul>	1970-1976
A12-B04B	<ul style="list-style-type: none"> <li><b>Produced by specific techniques</b> Including non-resinous pretreatment. Prior to 1977 see A12-B04A.</li> </ul>	1977
A12-B04C	<ul style="list-style-type: none"> <li><b>Using natural, inorganic or condensation resins</b> Prior to 1977 see A12-B04A.</li> </ul>	1977
A12-B04D	<ul style="list-style-type: none"> <li><b>Using acrylic resins</b> Prior to 1977 see A12-B04A.</li> </ul>	1977
A12-B04E	<ul style="list-style-type: none"> <li><b>Using vinyl carboxylate or halogen containing addition polymers</b> Prior to 1977 see A12-B04A.</li> </ul>	1977
A12-B04F	<ul style="list-style-type: none"> <li><b>Using other addition polymers</b> Prior to 1977 see A12-B04A.</li> </ul>	1977
A12-B05	<b>On glass; glass fibre</b> Excluding glass fibre reinforced for which see A12-S08+; Including on glass optical fibre (with A12-L03A). Prior to 1970 see A12-B.	1970
A12-B06	<b>On natural leather</b> Prior to 1970 see A12-B.	1970
A12-B07	<b>On polymers</b> Excluding on fibres for which see A12-B02+ or A12-G+. Prior to 1970 see A12-B.	1970
A12-B07A	<ul style="list-style-type: none"> <li><b>On films</b> Optionally laminated. Prior to 1977 see A12-B07.</li> </ul>	1977
A12-B07B	<ul style="list-style-type: none"> <li><b>On foams</b> Prior to 1977 see A12-B07.</li> </ul>	1977
A12-B07C	<ul style="list-style-type: none"> <li><b>On tubes, cables or other profiles</b> Prior to 1977 see A12-B07.</li> </ul>	1977
A12-B08	<b>On other inorganic material</b> e.g. concrete, ceramics, stone. Prior to 1977 see A12-B.	1977
A12-B09	<b>On wood or other plant derived material</b> Including seeds, coal dust. Prior to 1977 see A12-B.	1977
A12-B	<b>Other specific coatings</b> e.g. on foods, medical tablets.	

A12-C	<b>CLOTHING AND FOOTWEAR</b>	
A12-C00C	<b>Clothing general</b>	2002
A12-C01	<b>Foamback fabrics and garments</b>	
A12-C02	<b>Safety clothing</b> Excluding footwear; including sunglasses.	
A12-C02A	<ul style="list-style-type: none"> <li><b>Gloves</b></li> </ul>	1994
	<i>Previous code(s): A12-C02</i>	
A12-C02B	<ul style="list-style-type: none"> <li><b>Helmets</b></li> </ul>	1994
	<i>Previous code(s): A12-C02</i>	
A12-C03	<b>Other clothing</b> Including (slide)fasteners.	
A12-C04	<b>Footwear</b> Including laces; excluding socks, hosiery, for which see A12-C03.	
A12-D	<b>HOUSEHOLD AND OFFICE FITTINGS OR ACCESSORIES</b>	
A12-D00D	<b>General household/office application</b> Indexed for the generic case and where three or more codes are required from the A12-D+ hierarchy.	1994
A12-D01	<b>Furniture and soft furnishings</b> Including mattresses, bedding, draperies.	
A12-D02	<b>Carpets and (foam) underlays</b>	
A12-D03	<b>Kitchenware</b> Including brushes, boil-in-bag food packs, cooking utensils.	
A12-D04	<b>Other domestic</b> e.g. refrigerators.	
A12-D05	<b>Office</b>	
A12-D05A	<ul style="list-style-type: none"> <li><b>Pressure sensitive materials</b> e.g. carbon(-less) paper, typewriter ribbon. Prior to 1986 see A12-D05.</li> </ul>	1986
A12-D05B	<ul style="list-style-type: none"> <li><b>Writing devices and inks</b> Prior to 1986 see A12-D05.</li> </ul>	1986
A12-D	<b>Others</b> e.g. credit cards.	

<b>A12-E</b>	<b>ELECTRICAL ENGINEERING</b>		<b>A12-E08A2</b>	<b>.. Other magnetic recording</b>	
<b>A12-E01</b>	<b>General</b>			Including heads, (floppy)discs, magneto-(optical). Prior to 1986 see A12-E08.	
<b>A12-E01A</b>	<b>. Electromagnetic screening</b>	<b>1994</b>	<b>A12-E08B</b>	<b>. Motors, coils, transformers, generators</b>	<b>1986</b>
	<i>Previous code(s): A12-E+</i>			Prior to 1986 see A12-E08.	
<b>A12-E02</b>	<b>Cable and wire insulation or coating</b>				<b>1986</b>
<b>A12-E02A</b>	<b>. Compositions</b>	<b>1970</b>	<b>A12-E09</b>	<b>Electrolytic, electrochemical, or electrophoresis cells</b>	
	Prior to 1970 see A12-E02.			Including parts thereof e.g. electrodes. Prior to 1977 see A12-E.	
<b>A12-E02B</b>	<b>. Fabrication, treatment</b>	<b>1986</b>	<b>A12-E10</b>	<b>Heat and temperature uses</b>	<b>1977</b>
	Prior to 1986 see A12-E02.			e.g. temperature measurement, heating materials, heat sensitive materials. Prior to 1977 see A12-E.	
<b>A12-E03</b>	<b>Insulation tape</b>		<b>A12-E11</b>	<b>Electrooptical</b>	<b>1977</b>
<b>A12-E04</b>	<b>Potting compounds, encapsulating compositions and like insulation</b>			Excluding liquid crystal (devices) for which see A12-L03B; e.g. lamps. Prior to 1977 see A12-E.	
<b>A12-E05</b>	<b>Insulating cases and bodies (moulded or cast)</b>		<b>A12-E11A</b>	<b>. Electrochromic displays including cathode ray tubes; photodiodes (LED)</b>	<b>1986</b>
<b>A12-E06</b>	<b>Batteries, accumulators, fuel cells</b>	<b>1970</b>		Prior to 1986 see A12-E11.	
	Prior to 1970 see A12-E and A12-E05 appropriately.		<b>A12-E11B</b>	<b>. Photoelectric cells</b>	<b>1986</b>
<b>A12-E06A</b>	<b>. Electrodes</b>	<b>1986</b>		Including solar cells. Prior to 1986 see A12-E11.	
	Prior to 1986 see A12-E06.		<b>A12-E11C</b>	<b>. Electroluminescent devices</b>	<b>2002</b>
<b>A12-E06B</b>	<b>. Separators, membranes</b>	<b>1986</b>	<b>A12-E12</b>	<b>Electroacoustic</b>	<b>1977</b>
	Prior to 1986 see A12-E06.			e.g. radios, loudspeakers, including transducers. Prior to 1977 see A12-E.	
<b>A12-E06C</b>	<b>. Casings, seals, sealants</b>	<b>1986</b>	<b>A12-E13</b>	<b>Instrumentation; measuring; testing</b>	<b>1986</b>
	Prior to 1986 see A12-E06.			Including probes, sensors, detectors. Prior to 1986 see A12-E.	
<b>A12-E07</b>	<b>Circuit components</b>	<b>1970</b>	<b>A12-E14</b>	<b>Electrodes</b>	<b>1986</b>
	Prior to 1970 see A12-E.			Excluding A12-E06A and A12-E09. Prior to 1986 see A12-E.	
<b>A12-E07A</b>	<b>. Printed circuits</b>	<b>1977</b>	<b>A12-E15</b>	<b>Piezoelectric compositions/devices</b>	<b>1986</b>
	Prior to 1977 see A12-E07.			Prior to 1986 see A12-E.	
<b>A12-E07B</b>	<b>. Capacitors</b>	<b>1977</b>	<b>A12-E16</b>	<b>Superconductor application</b>	<b>1994</b>
	Prior to 1977 see A12-E07.			<i>Previous code(s): A12-E</i>	
<b>A12-E07C</b>	<b>. Semiconductor devices, integrated circuits; resistors</b>	<b>1977</b>	<b>A12-E</b>	<b>Others</b>	
	Prior to 1977 see A12-E07.			e.g. aerials.	
<b>A12-E08</b>	<b>Magnetic</b>	<b>1970</b>			
	e.g. magnets. Prior to 1970 see A12-E.				
<b>A12-E08A</b>	<b>. Magnetic recording (compositions)</b>	<b>1986</b>			
	Prior to 1986 see A12-E08.				
<b>A12-E08A1</b>	<b>.. Magnetic tape</b>	<b>1986</b>			
	Including audio and video. Prior to 1986 see A12-E08.				

<b>A12-F</b>	<b>FANCY GOODS, GAMES, SPORTS EQUIPMENT, TOYS</b>	
<b>A12-F01</b>	<b>Sports and games equipment</b> Including camping, board games, fishing lines. Prior to 1970 see A12-F.	1970
<b>A12-F01A</b>	. <b>Sports areas</b> Including courts, mats, pools. Prior to 1986 see A12-F01.	1986
<b>A12-F01B</b>	. <b>Balls, racquets, clubs, bats</b> Prior to 1986 see A12-F01.	1986
<b>A12-F</b>	<b>Others</b> Including fancy goods, toys.	
<b>A12-G</b>	<b>FIBRE AND TEXTILE POLYMERIC FINISHES</b>	
<b>A12-G00G</b>	<b>General or unspecified fibre and textile polymeric finishes</b>	2002
<b>A12-G01</b>	<b>Flame-retardant</b> See also A12-S05R for non-resinous finishes.	
<b>A12-G02</b>	<b>Shrink, crease-resistant, non-iron</b> See also A12-S05R for non-resinous finishes. Prior to 1970 see A12-G.	1970
<b>A12-G03</b>	<b>Water-, oil-, soil-proofing</b> See also A12-S05R for non-resinous finishes. Prior to 1970 see A12-G.	1970
<b>A12-G04</b>	<b>Sizes</b> See also A12-S05R for non-resinous finishes.  <i>Previous code(s): A12-G</i>	1994
<b>A12-G</b>	<b>Others</b> Excluding A12-S05S. See also A12-S05T for non-resinous finishes.	
<b>A12-H</b>	<b>MECHANICAL ENGINEERING</b>	
<b>A12-H00H</b>	<b>General mechanical engineering</b> Indexed for the generic case and where three or more codes are required from the A12-H+ hierarchy.	1994
<b>A12-H01</b>	<b>(Conveyor) belts</b> Including systems.	
<b>A12-H02</b>	<b>Hose, tubing, pipes</b>	
<b>A12-H02A</b>	. <b>Unreinforced</b> Prior to 1970 see A12-H02.	1970
<b>A12-H02B</b>	. <b>Reinforced</b> See also A12-S08+. Prior to 1970 see A12-H02.	1970

<b>A12-H02C</b>	. <b>Fittings</b> e.g. flanges, connectors. Prior to 1977 see A12-H02, A12-H02A and A12-H02B appropriately.	1977
<b>A12-H02D</b>	. <b>Coatings, linings</b> Including polymer laminates and coextrudates. Prior to 1977 see A12-H02, A12-H02A, and A12-H02B appropriately.	1977
<b>A12-H02D1</b>	.. <b>Lagging, thermal insulation</b> Prior to 1986 see A12-H02D	1986
<b>A12-H03</b>	<b>Gears, bearing surfaces and similar joints</b>	
<b>A12-H04</b>	<b>Filters</b> Excluding (semi)-permeable membranes (ultrafilters) for which see A12-W11A; includes cigarette filters.	
<b>A12-H05</b>	<b>Moulds of rubber or plastics</b> Excluding core moulds for which see A12-A02.	
<b>A12-H06</b>	<b>Hinges</b>	
<b>A12-H07</b>	<b>Valves, diaphragms</b> Prior to 1970 see A12-H.	1970
<b>A12-H08</b>	<b>Seals</b> Excluding A12-H07; sealants for which see A12-R08 and closures for which see A12-P03. Prior to 1970 see A12-H.	1970
<b>A12-H09</b>	<b>Shock absorbers</b> Prior to 1977 see A12-H.	1977
<b>A12-H10</b>	<b>Brake material; materials for increasing or decreasing friction; abrasion reducers</b> Excluding bearings for which see A12-H03. Prior to 1977 see A12-H.	1977
<b>A12-H11</b>	<b>Rolls, rollers</b> Prior to 1986 see A12-H.	1986
<b>A12-H12</b>	<b>Fasteners</b> Including screws, nuts, clamps, (anchor) bolts. Prior to 1986 see A12-H.	1986
<b>A12-H</b>	<b>Others</b> e.g. tools, pumps, fan blades.	

<b>A12-L</b>	<b>(ELECTRO)PHOTOGRAPHY, LABORATORY, OPTICAL</b> (Electro)photographic materials include those sensitive to (UV) light or ionising radiation.		<b>A12-L03B</b>	<b>. Liquid crystal (devices)</b> Prior to 1986 see the combination of codes A12-L03 and A12-E11.	1986
<b>A12-L00L</b>	<b>General optical</b>	2002	<b>A12-L03C</b>	<b>. Optically readable records</b> Including laser recording devices, optical discs e.g. compact discs. Prior to 1986 see A12-L03.	1986
<b>A12-L01</b>	<b>Photographic (film) support; binders</b>		<b>A12-L03D</b>	<b>. Optical filters</b> <i>Previous code(s): A12-L03</i>	1994
<b>A12-L02</b>	<b>Other photographic materials, processes</b>		<b>A12-L04</b>	<b>Laboratory</b>	
<b>A12-L02A</b>	<b>. Apparatus</b> Including lenses; e.g. spectacle lenses (with 12-V02A), but excluding contact lenses for which see A12-V02A only. Prior to 1970 see A12-L02.	1970	<b>A12-L04A</b>	<b>. Chromatography</b> <i>Previous code(s): A12-L04</i>	1994
<b>A12-L02B</b>	<b>. Compositions for making printing plates or electrical devices</b> Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A12-L02.	1977-1985	<b>A12-L04B</b>	<b>. Sensors/measuring</b> Excluding A12-E13. <i>Previous code(s): A12-L04</i>	1994
<b>A12-L02B1</b>	<b>.. Printing plates</b> Prior to 1986 see A12-L02B.	1986	<b>A12-L05</b>	<b>Electrophotography and thermography</b> Prior to 1970 see A12-L01, A12-L02 and A12-L appropriately.	1970
<b>A12-L02B2</b>	<b>.. Electrical devices</b> e.g. printed circuits. Prior to 1986 see A12-L02B.	1986	<b>A12-L05A</b>	<b>. Thermography</b> Prior to 1977 see A12-L05.	1977
<b>A12-L02C</b>	<b>. Radiation sensitive compositions containing unsaturated monomers</b> Excluding A12-L02B1 and A12-L02B2. Prior to 1977 see A12-L02.	1977	<b>A12-L05B</b>	<b>. Photoconductive polymers</b> Prior to 1977 see A12-L05.	1977
<b>A12-L02D</b>	<b>. Radiation sensitive compositions containing unsaturated polymers</b> Excluding A12-L02B1 and A12-L02B2. Prior to 1977 see A12-L02.	1977	<b>A12-L05C</b>	<b>. Electrophotographic toners and apparatus</b> Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A12-L05.	1977-1985
<b>A12-L02E</b>	<b>. Other radiation sensitive polymer compositions</b> Excluding A12-L02B1 and A12-L02B2. Prior to 1977 see A12-L02.	1977	<b>A12-L05C1</b>	<b>.. Equipment</b> Prior to 1986 see A12-L05C.	1986
<b>A12-L02F</b>	<b>. Compositions containing non-radiation sensitive polymer</b> Excluding A12-L01; including mordants, acceptor layers, developers. Prior to 1986 see A12-L02.	1986	<b>A12-L05C2</b>	<b>.. Toners and carriers</b> Prior to 1986 see A12-L05C.	1986
<b>A12-L03</b>	<b>Other optical uses</b> i.e. non-photographic; excluding electro-optical for which see A12-E11+; e.g. spectacle frames, lamp shades.		<b>A12-L05D</b>	<b>. Binders and substrates</b> Prior to 1977 see A12-L05.	1977
<b>A12-L03A</b>	<b>. Optical fibres, cables</b> Including coatings, adhesives etc. Prior to 1986 see A12-L03.	1986	<b>A12-L</b>	<b>Others</b>	

A12-M	<b>ION EXCHANGE RESINS, POLYELECTROLYTES</b>
A12-M	<b>General ion exchange resins</b>
A12-M01	<b>Acrylic polyelectrolytes, flocculants</b> Prior to 1977 see A12-M.
	1977
A12-M02	<b>Other polyelectrolytes, flocculants</b> Prior to 1977 see A12-M.
	1977
A12-M03	<b>Ion exchange resins from aromatic olefinic (optionally substituted) (co)polymers</b> Prior to 1977 see A12-M.
	1977
A12-M04	<b>Ion exchange resins from other addition (co)polymers</b> Excluding A12-M03. Prior to 1977 see A12-M.
	1977
A12-M05	<b>Ion exchange resins from other polymers; chelate resins</b> Prior to 1977 see A12-M.
	1977
A12-P	<b>PACKAGING</b>
A12-P01	<b>General</b>
A12-P01A	<ul style="list-style-type: none"> <li><b>(Wrapping) films and film laminates</b> Optionally containing non-polymeric layers. Prior to 1986 see A12-P01.</li> </ul>
	1986
A12-P01B	<ul style="list-style-type: none"> <li><b>General container</b> Indexed where three or more codes are required from the A12-P+ hierarchy.</li> </ul>
	1994
	<i>Previous code(s): A12-P01</i>
A12-P02	<b>Bags and sacks</b> Excluding blood bags for which see A12-V03B, handbags for which see A12-T.
A12-P03	<b>Closures</b>
A12-P04	<b>Shrink packages</b>
A12-P05	<b>Tanks, drums</b> Including linings.
A12-P06	<b>Other containers</b>
A12-P06A	<ul style="list-style-type: none"> <li><b>Bottles, aerosol containers</b> Prior to 1970 see A12-P06.</li> </ul>
	1970
A12-P06B	<ul style="list-style-type: none"> <li><b>Boxes, cartons, crates, rigid packs</b> Prior to 1970 see A12-P06.</li> </ul>
	1970
A12-P06C	<ul style="list-style-type: none"> <li><b>Collapsible tubes, sachets, blister packs</b> Prior to 1970 see A12-P06.</li> </ul>
	1970
A12-P07	<b>Rope, cord, net, webbing, strapping</b>
A12-P	<b>Other packaging accessories</b> e.g. handles, labels.

A12-R	<b>BUILDING, CIVIL ENGINEERING</b>
A12-R01	<b>General</b>
A12-R01A	<ul style="list-style-type: none"> <li><b>Concrete, cement, gypsum, mortar compositions and boards</b> Prior to 1986 see A12-R01.</li> </ul>
	1986
A12-R02	<b>Fittings</b> i.e. fixtures e.g. baths, guttering.
A12-R02A	<ul style="list-style-type: none"> <li><b>Windows, doors</b> Including frames, seals; excluding A12-R04. Prior to 1986 see A12-R02.</li> </ul>
	1986
A12-R02B	<ul style="list-style-type: none"> <li><b>Solar panels, collectors, heat storage devices</b> Non-electrical. Prior to 1986 see the combination of codes A12-R02 and A12-H for solar panels/collectors; and A12-R02 for heat storage devices.</li> </ul>
	1986
A12-R03	<b>Flooring</b>
A12-R04	<b>Glazing, roof lighting</b> e.g. skylights.
A12-R05	<b>Roofing</b> Excluding roof lighting.
A12-R06	<b>Thermal and/or acoustic insulation; honeycomb structures</b> Including all references. The code is applicable to non-specific uses. For specific uses in building see additionally the appropriate code. For specific uses in transport see A12-T04B and for pipe lagging see A12-H02D1. For other non-building use, see that use only e.g. thermally insulated bottles see A12-P06A.
A12-R07	<b>Walls, wall coverings and ceilings</b>
A12-R08	<b>Sealants, grouts, caulking compositions</b> The code is applicable to non-specific uses. For specific use in building see additionally the appropriate code e.g. for window seals see A12-R02A and A12-R08. For non-building use see that use only e.g. in sealing batteries see A12-E06+ only.
A12-R09	<b>Compositions for roads, aircraft runways, paving</b>
A12-R	<b>Others</b> e.g. road signs and road paints.



<b>A12-S</b>	<b>'SEMI-FINISHED' MATERIALS</b>		<b>A12-S04A3</b>	<b>.. Other addition and condensation resins compositions and foaming processes</b>	
<b>A12-S01</b>	<b>Expanded polystyrene</b>			Excluding A12-S01+ to A12-S03; e.g. polyisocyanurates. Prior to 1977 see A12-S04A.	
	Including uses. The codes A4-C02+ are not additionally searchable.				1977
<b>A12-S01A</b>	<b>. Compositions and foaming processes</b>		<b>A12-S04B</b>	<b>. Building, civil engineering, insulation (acoustic and thermal)</b>	
	A11-B06+ is additionally coded for foaming processes. Prior to 1970 see A12-S01.			Excluding A12-S04C and A12-S04D. Prior to 1977 see A12-S04 and A12-S04A appropriately.	1977
		1970			
<b>A12-S02</b>	<b>Expanded polyurethane, general</b>		<b>A12-S04C</b>	<b>. Packaging; agriculture</b>	
	The codes A05-G+ are not additionally searchable.			Prior to 1977 see A12-S04 and A12-S04A appropriately.	1977
<b>A12-S02A</b>	<b>. Foam-in-place, in-situ</b>				1977
	Prior to 1970 see A12-S02.		<b>A12-S04D</b>	<b>. Fabrics, furniture, upholstery, furnishings, including decorative panels; toys; sports goods</b>	
		1970		Prior to 1977 see A12-S04 and A12-S04A appropriately.	1977
<b>A12-S02B</b>	<b>. Compositions and general foam-forming</b>		<b>A12-S04E</b>	<b>. Integral skin foams, floats, cables, electrical insulation</b>	
	Applied from the start of 1970 to the end of 1976 and was then discontinued. Prior to 1970 see A12-S02.			Prior to 1977 see A12-S04 and A12-S04A appropriately.	1977
		1970-1976	<b>A12-S05</b>	<b>Fibres and textiles</b>	
<b>A12-S02C</b>	<b>. Foaming processes</b>			Applied from the start of Plasdoc to the end of 1969 and as then discontinued.	1966-1969
	Excluding A12-S02A. A11-B06+ is additionally coded. Prior to 1977 see A12-S02, A12-S02A and A12-S02B appropriately.		<b>A12-S05A</b>	<b>. Non-circular, hollow, tapered fibres</b>	
		1977		Prior to 1970 see A12-S05.	1970
<b>A12-S02D</b>	<b>. Polyetherurethanes</b>		<b>A12-S05B</b>	<b>. Conjugate fibres</b>	
	Prior to 1977 see A12-S02, A12-S02A and A12-S02B appropriately.			e.g. sea-island, side-by-side, sheath-core. Prior to 1970 see A12-S05.	1970
		1977	<b>A12-S05C</b>	<b>. Textured fibres</b>	
<b>A12-S02E</b>	<b>. Other specific polyurethanes</b>			e.g. crimped, bulked. Prior to 1970 see A12-S05.	1970
	Prior to 1977 see A12-S02, A12-S02A and A12-S02B appropriately.		<b>A12-S05D</b>	<b>. Elastic fibres</b>	
		1977		e.g. spandex Prior to 1970 see A12-S05.	1970
<b>A12-S02F</b>	<b>. Building, civil engineering, insulation (acoustic and thermal)</b>		<b>A12-S05E</b>	<b>. Other fibres</b>	
	Prior to 1986 see A12-S02 to A12-S02E appropriately.			e.g. staple, monofilts, fancy yarns. Prior to 1970 see A12-S05.	1970
		1986	<b>A12-S05F</b>	<b>. Woven fabrics</b>	
<b>A12-S03</b>	<b>Expanded thermosets</b>			Prior to 1970 see A12-S05.	1970
	e.g. phenoplasts.		<b>A12-S05G</b>	<b>. Non-woven fabrics; felts</b>	
<b>A12-S04</b>	<b>Expanded polymers or general</b>			Prior to 1970 see A12-S05.	1970
	Excluding A12-S01+ to A12-S03. Including uses other than A12-S04B to A12-S04E.		<b>A12-S05H</b>	<b>. Knitted fabrics</b>	
<b>A12-S04A</b>	<b>. Foamable, expandable compositions, general</b>			Prior to 1970 see A12-S05.	1970
	Prior to 1970 see A12-S04.				
		1970			
<b>A12-S04A1</b>	<b>.. Foaming processes</b>				
	A11-B06+ is additionally coded. Prior to 1977 see A12-S04A.				
		1977			
<b>A12-S04A2</b>	<b>.. Polyolefin compositions and foaming processes</b>				
	Prior to 1977 see A12-S04A.				
		1977			

A12-S05J	. <b>Other fabrics</b> e.g. net, pile, tufted. Prior to 1970 see A12-S05.	1970	A12-S06B	. <b>Treatment</b> Including welding. Prior to 1970 see A12-S06.	1970
A12-S05K	. <b>Fibre forming compositions</b> Prior to 1970 see A12-S05.	1970	A12-S06C	. <b>Having a laminated structure</b> e.g. with metal foils. Prior to 1977 see A12-S06, A12-S06A and A12-S06B appropriately.	1977
A12-S05L	. <b>Production of fibres</b> Including drawing; see also A11-B02+, A11-B15+ and A11-C05+. Prior to 1970 see A12-S05.	1970	A12-S06C1	.. <b>Of polymeric films only</b> Prior to 1986 see A12-S06C.	1986
A12-S05M	. <b>Treatment of fibres, textiles, general</b> Prior to 1970 see A12-S05.	1970	A12-S06D	. <b>Made from mixtures of polymers</b> Prior to 1977 see A12-S06, A12-S06A and A12-S-6B appropriately.	1977
A12-S05N	. <b>Dyeing polyesters, polyamides or cellulose</b> Prior to 1977 see A12-S05N. See also A11-A01 to A11-A01B appropriately.	1977	A12-S07	<b>Sheet</b> Excluding reinforced, for which see A12-S08A.	
A12-S05P	. <b>Dyeing other substrates</b> Excluding A12-S05N. Prior to 1977 see A12-S05M. See also A11-A01 to A11-A01B appropriately.	1977	A12-S07A	. <b>Laminated</b> Prior to 1970 see A12-S07.	1970
A12-S05Q	. <b>Printing</b> Prior to 1977 see A12-S05M. See also A11-C04A.	1977	A12-S08	<b>Reinforced plastics</b> See also A12-H02B.	
A12-S05R	. <b>Repellent, flame proofing, crease-resistant, pill resistant and durable press treatments (non-resinous)</b> e.g. water, oil, insect. Prior to 1977 see A12-S05M.	1977	A12-S08A	. <b>Sheets, panels, laminates</b> Prior to 1970 see A12-S08.	1970
A12-S05S	. <b>Antistatic, surfactant, softener or lubricant treatments</b> i.e. both resinous and non-resinous finishes. Prior to 1977 see A12-S05M.	1977	A12-S08B	. <b>Glass fibre reinforced</b> Excluding A12-S08A; do not search A08-R04 unless novelty in glass fibre. Prior to 1970 see A12-S08.	1970
A12-S05T	. <b>Other chemical treatments</b> Non-resinous; including carbon fibre production. Prior to 1977 see A12-S05M.	1977	A12-S08C	. <b>Other specific reinforcing materials</b> e.g. carbon fibre. Prior to 1977 see A12-S08, A12-S08A and A12-S08B appropriately.	1977
A12-S05U	. <b>Physical and mechanical processes</b> Prior to 1977 see A12-S05M.	1977	A12-S08D	. <b>Uses</b> Prior to 1977 see A12-S08, A12-S08A and A12-S08B appropriately.	1977
A12-S05X	. <b>General fibre</b> Indexed for the generic case.  <i>Previous code(s): A12-S05</i>	1994	A12-S08D1	.. <b>Mechanical engineering</b> Prior to 1986 see A12-S08D.	1986
A12-S06	<b>Films</b> i.e. self-supporting.		A12-S08D2	.. <b>Electrical engineering</b> Prior to 1986 see A12-S08D.	1986
A12-S06A	. <b>Film production</b> Including tubular. Prior to 1970 see A12-S06.	1970	A12-S08D3	.. <b>Transport; military</b> Prior to 1986 see A12-S08D.	1986
			A12-S08E	. <b>Thermoplastic reinforced composites</b> Prior to 1986 see A12-S08 to A12-S08D appropriately.	1986
			A12-S08F	. <b>Fabric reinforced</b> i.e. woven, non-woven or knitted of e.g. glass, aramid. Prior to 1986 see A12-S08 to A12-S08D appropriately.	1986

A12-S09	<b>Powders, granules</b> Prior to 1977 see A12-S.	1977	A12-T04B	. <b>Crash pads (excluding bumpers), fascia, insulation (acoustic and thermal), upholstery</b> Prior to 1977 see A12-T04.	1977
A12-S09A	. <b>Formed by mechanical treatment</b> e.g. cutting, grinding. Prior to 1986 see A12-S09.	1986	A12-T04C	. <b>Engine systems and associated components; electrical</b> Excluding jet engines; e.g. exhaust systems, carburettors, gaskets, propeller shafts. Prior to 1986 see A12-T04.	1986
A12-S10	<b>Plastisols</b> Prior to 1986 see A12-S.	1986	A12-T04D	. <b>Other moulded parts, fittings</b> Including bumpers. Prior to 1986 see A12-T04.	1986
A12-S	<b>Other semi-finished materials</b> e.g. solutions; bulk-, dough-, sheet- and thick- moulding compounds (BMC, DMC, SMC, TMC); (micro-)gels.		A12-T04E	. <b>Safety devices</b>  <i>Previous code(s): A12-T04</i>	1994
A12-T	<b>TRANSPORT</b>		A12-T05	<b>Vehicle coatings, paints</b> Prior to 1986 see A12-T.	1986
A12-T01	<b>Tyres and tracks, inner tubes</b>		A12-T	<b>Others</b> e.g. pallets, travel goods, buoys.	
A12-T01A	. <b>Tyre-building equipment</b> Prior to 1970 see A12-T01.	1970	A12-V	<b>MEDICAL, DENTAL, COSMETICS AND VETERINARY</b>	
A12-T01B	. <b>Tyre design, studs</b> e.g. tread. Prior to 1977 see A12-T01.	1977	A12-V00V	<b>Medical general</b>	2002
A12-T01C	. <b>Tyre cord (polymeric only); tyre cord adhesives (polymeric only)</b> Prior to 1977 see A12-T01.	1977	A12-V01	<b>Medicines, pharmaceuticals</b> Prior to 1970 see A12-V.	1970
A12-T01D	. <b>Retreading, scrap recovery, disposal and use of old tyres</b> Prior to 1977 see A12-T01.	1977	A12-V02	<b>Prostheses</b> e.g. artificial blood vessels. Prior to 1970 see A12-V.	1970
A12-T02	<b>Vehicle shells</b> e.g. boat hulls.		A12-V02A	. <b>Optical</b> e.g. contact lenses; for spectacle lenses see A12-L02A, in addition; for spectacle frames see A12-L03. Prior to 1986 see A12-V02.	1986
A12-T03	<b>Other parts for rockets, space vehicles, jet engines, and armaments</b> Excluding A12-T01+ and A12-T02.		A12-V02B	. <b>Dental</b> Including fillings, adhesives. Prior to 1986 see A12-V02.	1986
A12-T03A	. <b>Fuels, explosives</b> Prior to 1970 see A12-T03.	1970	A12-V03	<b>Equipment, splints, sutures</b> Prior to 1970 see A12-V.	1970
A12-T03B	. <b>Petroleum fuel additives</b> Prior to 1977 see A12-T03A.	1977	A12-V03A	. <b>Dressings; bandages; tampons; diapers</b> Prior to 1977 see A12-V03.	1977
A12-T03C	. <b>Propellants, rocket fuels</b> Prior to 1977 see A12-T03A.	1977	A12-V03B	. <b>Respirators; oxygenating devices; blood handling apparatus and devices</b> e.g. catheters. Prior to 1977 see A12-V03.	1977
A12-T03D	. <b>Military applications</b>  <i>Previous code(s): A12-T03</i>	1994			
A12-T03D1	.. <b>Military applications (Offensive)</b> e.g. weapons.	1994			
A12-T03D2	.. <b>Military applications (Defensive)</b> e.g. body armour (with A12-C02).	1994			
A12-T04	<b>Other vehicle parts and accessories</b>				
A12-T04A	. <b>Optical</b> Prior to 1977 see A12-T04.	1977			

A12-V03B1	.. Birth control devices	2006
	Prior to 2006 see A12-V03B	
A12-V03C	. Dental, sterilisation and hygiene; testing, diagnosis and pathology	
	Prior to 1977 see A12-V01, A12-V02, A12-V03 and A12-V appropriately.	1977-1985
A12-V03C1	.. Dental; sterilisation and hygiene	
	e.g. surgical gowns and masks. Prior to 1986 see A12-V03C.	1986
A12-V03C2	.. Testing, diagnosis, pathology	
	Prior to 1986 see A12-V03C.	1986
A12-V03D	. Medical or surgical instrumentation and equipment	
	Excluding A12-V03B, A12-V03C1 and A12-V03C2. Prior to 1986 see A12-V03.	1986
A12-V04	Cosmetics, toilet requisites	
	Including razor blades, wigs. Prior to 1970 see A12-V.	1970
A12-V04A	. Hair requisites	
	e.g. shampoo, dyes, gels. Prior to 1986 see A12-V04.	1986
A12-V04B	. Dental	
	e.g. toothpaste, dental floss. Prior to 1986 see A12-V04.	1986
A12-V04C	. Skin requisites	
	e.g. barrier creams, lotions, powders etc; including nail varnish, lipstick. Prior to 1986 see A12-V04.	1986
A12-V	Others	

A12-W	OTHER APPLICATIONS	
	Excluding A12-A: to A12-V:.	
A12-W01	Gramophone records	
A12-W01A	. Video discs	
	Prior to 1986 see A12-W01.	1986
A12-W02	Lubricants and functional fluids	
	Including hydraulic fluids.	
A12-W02A	. Polymeric additives	
	Prior to 1970 see A12-W02.	1970
A12-W03	Advertising and display	
A12-W04	Agriculture, horticulture	
A12-W04A	. Growing areas, containers	
	Including greenhouses, cloches, agricultural film, plant pots, mulches. Prior to 1986 see A12-W04.	1986
A12-W04B	. Culture media	
	Including fertilisers, soil improvers, seed coatings. Prior to 1986 see A12-W04.	1986
A12-W04C	. Protective chemicals	
	Including bactericides, herbicides, fungicides, insecticides. Prior to 1986 see A12-W04.	1986
A12-W05	Encapsulated articles	
	Excluding electrical goods for which see A12-E04; including microcapsules.	
A12-W06	Paper compositions	
	Excluding coatings for which see A12-B03+ and paper making machinery (e.g. belts, filters) for which see A12-H+.	
A12-W06A	. From non-cellulosic polymeric film, pulp or fibre	
	Prior to 1977 see A12-W06.	1977
A12-W06B	. Addition polymers	
	Prior to 1977 see A12-W06.	1977
A12-W06C	. Condensation polymers	
	Prior to 1977 see A12-W06.	1977
A12-W06D	. Natural polymers	
	Excluding natural cellulose e.g. wood fibres. Prior to 1977 see A12-W06.	1977
A12-W07	Printing; book binding	
A12-W07A	. Printing plates produced non-photographically	
	Prior to 1970 see A12-W07.	1970
A12-W07B	. Lithographic printing plates produced (electro)photographically	
	Prior to 1977 see A12-W07A.	1977

A12-W07C	. Other printing plates produced (electro)photographically Prior to 1977 see A12-W07A.	1977	A12-W11C	. Nuclear engineering Prior to 1977 see A12-W11.	1977
A12-W07D	. Inks Prior to 1977 see A12-W07.	1977	A12-W11D	. Adsorption other than with ion exchange resins e.g. in pollution control. Prior to 1977 see A12-W11.	1977
A12-W07D1	.. Inkjet inks	2002	A12-W11E	. Pollution control using coagulants, flocculants or polyelectrolytes Prior to 1977 see A12-W11.	1977
A12-W07E	. Dyes and pigments for inks Where dye/pigment is novelty. Prior to 1977 see A12-W07.	1977	A12-W11F	. Other pollution control Prior to 1977 see A12-W11.	1977
A12-W07F	. Other printing equipment/processes e.g. equipment for book binding, printing blankets. Prior to 1977 see A12-W07.	1977	A12-W11G	. Heat exchangers, heat storage and heat transfer compositions, coolants, antifreeze Prior to 1986 see A12-W11 and A12-W12 appropriately.	1986
A12-W07F1	.. Thermal transfer systems <i>Previous code(s): A12-W07F</i>	1994	A12-W11H	. Polymer use in pigment/dye compositions of no other specified use Prior to 1986 see A12-W11.	1986
A12-W07F2	.. Printing substrates <i>Previous code(s): A12-W07F</i>	2007	A12-W11J	. Water treatment (compositions); scale inhibition; corrosion prevention Including pollution control treatment. Prior to 1986 see A12-W11 and A12-W12 appropriately.	1986
A12-W08	<b>Musical instruments</b>		A12-W11K	. Catalysts and supports Prior to 1986 see A12-W11B.	1986
A12-W09	<b>Food</b> Excluding packaging for which see A12-P+. Prior to 1970 see A12-W.	1970	A12-W11L	. (Immobilised) enzymes or microorganisms, microbiology Excluding detergents for which see A12-W12A or A12-W12B. Prior to 1986 see A12-W11B.	1986
A12-W10	<b>Mining, oil wells</b> Prior to 1970 see A12-W.	1970	A12-W12	<b>Miscellaneous compositions</b> e.g. syntactic foams, fire-fighting. Prior to 1970 see A12-W.	1970
A12-W10A	. Drilling mud or fluid Prior to 1986 see A12-W10.	1986	A12-W12A	. Detergents for fibres/fabrics Including softeners. Prior to 1977 see A12-W12.	1977
A12-W10B	. Well stimulation, flooding, recovery, fracturing Prior to 1986 see A12-W10.	1986	A12-W12B	. Cleaning compositions Excluding A12-W12A.	1977
A12-W10C	. Cementing, plugging, lining, consolidation Prior to 1986 see A12-W10.	1986	A12-W12C	. Surfactants Excluding A12-W12A and A12-W12B. Prior to 1977 see A12-W12.	1977
A12-W11	<b>Chemical engineering, pollution control</b> Prior to 1970 see A12-W.	1970			
A12-W11A	. Reverse osmosis; semi-permeable membranes Including ultrafilters. Prior to 1977 see A12-W11.	1977			
A12-W11B	. Enzyme containing compositions; catalysts Applied from the start of 1977 to the end of 1985 and was then discontinued. From the start of 1986 see A12-W11K and A12-W11L. Prior to 1977 see A12-W11.	1977-1985			

A12-W12D	<ul style="list-style-type: none"> <li><b>Electroplating additives; fluxes, metallurgy, ceramic uses</b> Applied from the start of 1977 to the end of 1985 and was then discontinued. Prior to 1977 see A12-W12.</li> </ul>	1977-1985
A12-W12E	<ul style="list-style-type: none"> <li><b>Electroplating bath additives</b> Prior to 1986 see A12-W12D.</li> </ul>	1986
A12-W12F	<ul style="list-style-type: none"> <li><b>Metallurgy</b> Including fluxes. Prior to 1986 see A12-W12D.</li> </ul>	1986
A12-W12G	<ul style="list-style-type: none"> <li><b>Ceramics, refractory compsns.</b> Prior to 1986 see A12-W12D.</li> </ul>	1986
A12-W13	<b>Super absorbents</b>	2002
A12-W14	<b>Nanotechnology</b> Applied when stated for polymers used in nanotechnology applications. Note: would not normally include photoresists.	2007
A12-W15	<b>Controlled Release</b>	2010
A12-W16	<b>Renewable Energy</b>	2010
A12-W	<b>Others</b> e.g. coffins, watches.	
A99-A	<b>Patents with minimal polymer content</b>	2001







## B:

### FARMDOC

- B01 Steroids
- B02 Antibiotics (*Vaccines pre-1994, see B14-S11 from 1994*)
- B03 Vitamins
- B04 Natural Products (or Genetically Engineered), Polymers
- B05 Miscellaneous
- B06 Heterocyclic Fused Ring
- B07 Heterocyclics, Mononuclear
- B08 Aromatics, Polycarbocyclic
- B09 Alicyclics, Polycarbocyclic
- B10 Aromatics and Cycloaliphatics (Mono and Bicyclic only), Aliphatics
- B11 Processes, Apparatus
- B12 Diagnostics and Formulation Types  
(*Therapeutic, Pesticidal, Herbicidal*)  
(*pre 1994*)
- B14 Pharmaceutical Activities



## B: FARMDOC

The codes in this section have an initial letter B and apply only to Farmdoc. For the corresponding Agdoc codes the initial 'B' must be replaced by 'C' (before 1994). The notes referring to "B" codes apply equally to "C" codes in Agdoc unless stated otherwise (before 1994). A compound is normally assigned only one code from sections B01 to B10 according to the priority rule of B01 before B02 etc.

Compounds of known structure are always coded according to chemical structure in B05 to B10. However, steroids, antibiotics, vitamins and natural products (and their derivatives) are coded respectively in B01, B02, B03 and B04 unless stated otherwise (see B03, B03-J, B03-K, B04-A07A, B04-A07E for exclusions).

The code commenced in 1963 for Farmdoc and 1965 for Agdoc.

### B01 STEROIDS

This section covers all compounds containing the basic steroidal nucleus (cyclopentanophenanthrene ring), which may have other rings (carbocyclic or heterocyclic) fused onto it. Compounds which contain heteroatoms within the basic cyclopentanophenanthrene ring (e.g. azasteroids) are excluded. Homosteroids (containing extra carbon in the ring), norsteroids (missing one carbon in the ring) and secosteroids (bonds broken, e.g. vitamin D) are also excluded. Steroids of unknown structure are coded under B04-B02D: (before 1994) or B04-J02 (after 1994) and B01-E (from 2010). All groups listed include derivatives. Thus hydroxy includes ethers, esters and cyclic derivatives (linked via an oxygen atom to a steroid carbon atom). All the compound types listed may contain additional substituents, provided that they are not specified for an earlier occurring code.

Conventions used

- 1 Steroids containing thio-groups (e.g. mercapto or thione), are assigned the same code as the corresponding oxygen containing compounds.
- 2 17, 20 and 21 hydroxy include all cyclic derivatives linked via -O- to 17, 20 or 21, provided these are not linked via atoms other than O(S) to 17, 20 or 21 positions.
- 3 3, 17 and 20 ketone include oxime, hydrazone etc., hemi-ketal, ketal (including those cyclic derivatives which satisfy convention (2)).
- 4 In deciding precedence, the highest priority is given to the lowest number.
- 5 'Y' represents 2-4 carbon chain, but includes cyclic derivatives only when they satisfy conventions (2) or (3).
- 6 'Z' represents hydroxyacetyl or 1,2-di-hydroxyethyl.

<b>B01-A</b>	<b>1,3,5(10)-TRIENES</b>
<b>B01-A01</b>	<b>Estrones (3-ol, 17-one)</b>
<b>B01-A02</b>	<b>Estradiols (3,17-diol)</b>
<b>B01-A03</b>	<b>Others</b>
<b>B01-B</b>	<b>RING 'A' DIENES</b>
<b>B01-B01</b>	<b>Prednisones (3,11-dione; 17-ol; 17-Z)</b>
<b>B01-B02</b>	<b>Prednisolones (3-one; 11,17-diol; 17-Z)</b>
<b>B01-B03</b>	<b>Other 1,4-dienes</b>
<b>B01-B04</b>	<b>Others</b>
<b>B01-C</b>	<b>RING 'A' MONOENES</b>
<b>B01-C01</b>	<b>Cortisones (3,11-dione; 17-ol; 17-Z)</b>
<b>B01-C02</b>	<b>Cortisols (3-one; 11,17-diol; 17-Z)</b>
<b>B01-C03</b>	<b>17-hydroxylprogesterones (3-one; 17-acetyl)</b>
<b>B01-C04</b>	<b>Progesterones (3-one; 17-acetyl)</b>
<b>B01-C05</b>	<b>Testosterones (3-one; 17-ol)</b>
<b>B01-C06</b>	<b>Pregn(3 or 4)enes (17-Y)</b>
<b>B01-C07</b>	<b>Pregn(1 or 2)enes (17-Y)</b>
<b>B01-C08</b>	<b>Pregn(5(10) or 1(10))enes (17-Y)</b>
<b>B01-C09</b>	<b>Androst(3 or 4)enes</b>
<b>B01-C10</b>	<b>Androst(1 or 2)enes</b>
<b>B01-C11</b>	<b>Androst(5(10) or 1(10))enes</b>
<b>B01-D</b>	<b>SATURATED RING'A'</b>
<b>B01-D01</b>	<b>Pregnanes (17-Y)</b> Including cardenolides and digoxin.
<b>B01-D02</b>	<b>Androstanes</b>
<b>B01-E</b>	<b>Steroids (no structure)</b> Non-structural steroids other than steroid hormones, e.g. plant sterols.

2010

## B02 ANTIBIOTICS (Vaccines pre-1994, see B14-S11 from 1994)

Antibiotics are coded using the first letter of the parent antibiotic (where this is known or given), for example, dihydro- streptomycin is coded B02-S, chlortetracycline B02-T and adriamycin(doxorubicin) B02-D. Un-named or general antibiotics are coded B02-Z.

Vaccines, anti-toxins used as vaccines etc. are coded B02-V02 (before 1994) and B14-S11+ (from 1994). "C" and "P" antibiotics including cephalosporins and penicillins are subdivided further. All antibiotics are coded in this section even if they are not being used for their antibiotic properties.

<b>B02-C</b>	<b>"C" ANTIBIOTICS, GENERAL</b>	
<b>B02-C</b>	<b>General</b>	
<b>B02-C01</b>	<b>"C" antibiotics other than cephalosporins</b>	1977
<b>B02-C02</b>	<b>Ring modified cephalosporins</b> This code covers cephalosporins with no - (CH <sub>2</sub> )X (X=H or substituent) at 3-position, or two substituents at 7-position.	1977
<b>B02-C03</b>	<b>Other 3-unsubstituted methyl, 7-monosubstituted cephalosporins</b>	1977
<b>B02-C04</b>	<b>Other 7-monosubstituted cephalosporins</b> Including lactones.	1977
<b>B02-P</b>	<b>"P" ANTIBIOTICS, GENERAL</b>	
<b>B02-P</b>	<b>General</b> Includes penicillins with no 6-acetamide group.	
<b>B02-P01</b>	<b>"P" antibiotics other than penicillins</b>	1977
<b>B02-P02</b>	<b>6-acetamidopenicillins, alpha-substituted by N-atom</b>	1977
<b>B02-P03</b>	<b>Other 6-acetamidopenicillins</b>	1977
<b>B02-V</b>	<b>"V" ANTIBIOTICS, VACCINES (PRE-1994)</b>	
<b>B02-V</b>	<b>General</b>	1963-1993
<b>B02-V01</b>	<b>"V" Antibiotics</b>	1986
<b>B02-V02</b>	<b>Vaccines</b> Excluding interferon. The code B12-A06 for antiviral is not additionally searchable.  <i>Now coded as: B14-S11+</i>	1986-1993
<b>B02-V03</b>	<b>Interferon</b> Not additionally searchable as polypeptide B04-C01:.  <i>Now coded as: B04-H05+</i>	1986-1993

## B03 VITAMINS

Each sub-group includes related compounds with similar activity, and pro-vitamins. The following compounds although having vitamin activity, are indexed under the appropriate chemical classification only: nicotinic acid (B07-D04+), pantothenic acid (B10-C04D), folic acid (B06-D09), choline (B10-A22), inositol (B10-E04A), biotin (B06-F03), p-amino-benzoic acid (B10-B02A), linoleic acid (B10-C04E2), and other unsaturated acids.

<b>B03-A</b>	<b>A and carotenoids</b>
<b>B03-B</b>	<b>B1 (thiamine)</b>
<b>B03-C</b>	<b>B2 (riboflavin)</b>
<b>B03-D</b>	<b>B6 (pyridoxine)</b>
<b>B03-E</b>	<b>B12 and cobalamine</b>
<b>B03-F</b>	<b>C (ascorbic acid)</b>
<b>B03-G</b>	<b>D (calciferol)</b>
<b>B03-H</b>	<b>E and tocopherols</b>
<b>B03-J</b>	<b>Vitamin K</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only.
<b>B03-K</b>	<b>Vitamin P and others</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only.
<b>B03-L</b>	<b>General</b>

## B04 NATURAL PRODUCTS (OR GENETICALLY ENGINEERED), POLYMERS

In general, natural products are coded according to their most descriptive feature (usually chemical), thus

- (i) milk is coded B04-B04K only, and not also B04-B04G (gland extract) or B04-B04L (mammalian extract);
- (ii) a polysaccharide obtained from a plant is coded B04-C02D only, and not also B04-A07F.

The following compounds and their derivatives are coded in B04 only, and not also according to their chemical structure:- tropanes, scopolamine, quinine, quinidine, lysergic acid, morphine, yohimbane, xanthines, rotenone, pyrethroids, gibberellins, nucleosides and nucleotides, prostaglandins. If a compound's structure or activity suggest it may be a natural product analogue it is coded in B04 and structurally. To distinguish between specifically genetically engineered products and those prepared by other methods, the E suffix (engineered) is appended to codes introduced from 1994 in the appropriate format. For example Interleukin 6 prepared by exogenous gene expression in a host is coded B04-H02G0E. All codes which have genetically engineered equivalents are marked #.

<b>B04-A</b>	<b>ALKALOIDS, PLANT EXTRACTS</b>	
<b>B04-A01</b>	<b>Belladonna</b> Including tropanes and scopolamines.	
<b>B04-A02</b>	<b>Cinchona</b> Including quin(id)ines.	
<b>B04-A03</b>	<b>Ergot</b> Including lysergic acid.	
<b>B04-A04</b>	<b>Opium</b> Including morphines and morphinans from 198601 but excluding apomorphine.	
<b>B04-A05</b>	<b>Rauwolfia</b> Including yohimbanes.	
<b>B04-A06</b>	<b>Xanthines</b> i.e. 2,6-dioxo-purines.	
<b>B04-A07</b>	<b>Plant extracts general</b>	1963-1965
<b>B04-A07A</b>	. <b>Other alkaloids</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only. e.g. strychnine is coded B06-E05 only.	1965
<b>B04-A07A1</b>	.. <b>Vinca alkaloids</b> Includes vincristine, vinblastine, vinorelbine and vindesine.	2010
<b>B04-A07B</b>	. <b>Derris</b> e.g. rotenone.	1965
<b>B04-A07C</b>	. <b>Pyrethrins</b>	1965
<b>B04-A07D</b>	. <b>Peat, straw, cereal, seeds, bran, whole plants, juice</b>	1965-1993 <i>Now coded as: B04-A08, B04-A09</i>
<b>B04-A07D1</b>	.. <b>Peat, humic acid</b>	1986-1993 <i>Now coded as: B04-A09J</i>
<b>B04-A07D2</b>	.. <b>Seeds, husks from seeds, seed meal, cereal, grain</b>	1986-1993 <i>Now coded as: B04-A09F</i>
<b>B04-A07D3</b>	.. <b>Wood shavings, bark, sawdust</b>	1986-1993 <i>Now coded as: B04-A09G</i>
<b>B04-A07D4</b>	.. <b>Grass, straw, hay, plant stems, sap produced by pressing</b> Excluding B04-A07D3.	1986-1993 <i>Now coded as: B04-A09H</i>
<b>B04-A07D5</b>	.. <b>Whole plants, leaves, whole mushrooms, flowers, plants produced by tissue culture</b> Excluding B04-A07D4. B11-A is also coded.	1986-1993 <i>Now coded as: B04-A08+, B04-A09A, B04-A09B, B04-A09D</i>
<b>B04-A07E</b>	. <b>Glycosides</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only, e.g. glycyrrhizin is coded B07-A02B only.	1965
<b>B04-A07F</b>	. <b>Plant extract general</b>	1963-1993 <i>Now coded as: B04-A10</i>
<b>B04-A07F1</b>	.. <b>Mushrooms, toadstools extracts</b>	1986-1993 <i>Now coded as: B04-A10A</i>
<b>B04-A07F2</b>	.. <b>Other plant extracts</b>	1986-1993 <i>Now coded as: B04-A10B+, B04-A09C</i>
<b>B04-A08 #</b>	<b>Plant divisions and whole plants general and other</b> E suffix is appended to respective whole plant codes for transgenic plants. N.B. Plant cells and plant tissue are coded B04-F08.	1994 <i>Previous code(s): B04-A07D</i>
<b>B04-A08A #</b>	. <b>Bryophytes</b> e.g. liverworts and mosses.	1994 <i>Previous code(s): B04-A07D5</i>
<b>B04-A08B #</b>	. <b>Pteridophytes</b> e.g. ferns.	1994 <i>Previous code(s): B04-A07D5</i>
<b>B04-A08C #</b>	. <b>Spermatophytes</b>	1994 <i>Previous code(s): B04-A07D5</i>
<b>B04-A08C1 #</b>	.. <b>Gymnosperms</b> e.g. conifers.	1994 <i>Previous code(s): B04-A07D5</i>
<b>B04-A08C2 #</b>	.. <b>Angiosperms</b> e.g. flowering plants, grass, dicotyledons and monocotyledons.	1994 <i>Previous code(s): B04-A07D5</i>
<b>B04-A08D #</b>	. <b>Fungi</b> e.g. mushrooms, toadstools, but not unicellular or microscopic fungi.	1994 <i>Previous code(s): B04-A07D5</i>

<b>B04-A09 #</b>	<b>Plant parts general and other</b> Plant parts derived from specific plant species are additionally coded in B04-A08. <i>Previous code(s): B04-A07D</i>	<b>B04-A10G #</b>	<b>. Seed, seed husk, seed meal, cereal, grain and nut extracts</b> <i>Previous code(s): B04-A07F2</i>
	1994		1994
<b>B04-A09A #</b>	<b>. Leaves</b> <i>Previous code(s): B04-A07D5</i>	<b>B04-A10H #</b>	<b>. Wood shaving, bark, sawdust extracts</b> <i>Previous code(s): B04-A07F2</i>
	1994		1994
<b>B04-A09B #</b>	<b>. Flowers and parts</b> Excluding pollen. <i>Previous code(s): B04-A07D5</i>	<b>B04-A10J #</b>	<b>. Straw, hay, stem and sap extracts</b> <i>Previous code(s): B04-A07F2</i>
	1994		1994
<b>B04-A09C #</b>	<b>. Pollen</b> <i>Previous code(s): B04-A07F, B04-B04C2</i>	<b>B04-A10K #</b>	<b>. Fruit extract</b> <i>Previous code(s): B04-A10</i>
	1994		2006
<b>B04-A09D #</b>	<b>. Roots</b> <i>Previous code(s): B04-A07D5</i>	<hr/>	
	1994	<b>B04-B</b>	<b>ANIMAL, MICROBIOLOGICAL AND GENERAL EXTRACTS</b>
<b>B04-A09F #</b>	<b>. Seeds, seed husks, seed meal, cereal, grain, nuts, bran</b> <i>Previous code(s): B04-A07D2</i>	<b>B04-B01</b>	<b>Oils, fats general</b> 1963-1965
	1994	<b>B04-B01A</b>	<b>. Halogenated oils, waxes, etc.</b> 1965
<b>B04-A09G #</b>	<b>. Wood, shavings, bark, sawdust</b> <i>Previous code(s): B04-A07D3</i>	<b>B04-B01B</b>	<b>. Fats, lanolin, lipids, glycolipids</b> 1965
	1994	<b>B04-B01C</b>	<b>. Oils and waxes general</b>
<b>B04-A09H #</b>	<b>. Straw, hay, stems, sap</b> <i>Previous code(s): B04-A07D4</i>	<b>B04-B01C1</b>	<b>.. Vegetable oils and waxes</b> e.g. sunflower, soy bean and cotton seed oil. 1986
	1994	<b>B04-B01C2</b>	<b>.. Animal oils and waxes</b> e.g. spermaceti, cod liver oil. 1986
<b>B04-A09J #</b>	<b>. Peat, humic acid</b> <i>Previous code(s): B04-A07D1</i>	<b>B04-B01C3</b>	<b>.. Mineral oils and waxes</b> e.g. vaseline, petroleum liquid paraffin and synthetic oils. 1986
	1994		
<b>B04-A09K #</b>	<b>. Fruit</b> <i>Previous code(s): B04-A09</i>	<b>B04-B01D</b>	<b>. Other oil and wax derivatives</b> oils and waxes that are hydrogenated and/or modified by a polymer. May be applied in conjunction with codes from B04-B01C. <i>Previous code(s): B04-B01C</i> 2010
	2006		
<b>B04-A10 #</b>	<b>Plant extracts general and other</b> Plant extracts derived from specific plant species are additionally coded in B04-A08. When the use of "Chinese herbal medicine" is claimed this code is applied. <i>Previous code(s): B04-A07F</i>	<b>B04-B02</b>	<b>Microorganisms, hormones, enzymes general</b> 1963-1965
	1994		
<b>B04-A10A #</b>	<b>. Fungi</b> e.g. mushrooms, toadstools, but not unicellular or microscopic fungi. <i>Previous code(s): B04-A07F1</i>	<b>B04-B02A</b>	<b>. Gibberellins</b> 1965
	1994	<b>B04-B02B</b>	<b>. Microorganisms general</b> <i>Now coded as: B04-F01</i> 1965-1993
<b>B04-A10B #</b>	<b>. Leaf extracts</b> <i>Previous code(s): B04-A07F2</i>	<b>B04-B02B1</b>	<b>.. Bacteria</b> e.g. Staphylococcus, Bacillus, Rickettsia. <i>Now coded as: B04-F10+</i> 1986-1993
	1994		
<b>B04-A10C #</b>	<b>. Flower extracts and extracts from flower parts</b> Excluding pollen. <i>Previous code(s): B04-A07F2</i>		
	1994		
<b>B04-A10D #</b>	<b>. Pollen extract</b> <i>Previous code(s): B04-A07F, B04-B04C2</i>		
	1994		
<b>B04-A10F #</b>	<b>. Root extracts</b> <i>Previous code(s): B04-A07F2</i>		
	1994		

B04-B02B2	.. <b>Fungi</b> e.g. Candida, Aspergillus, Streptomyces.  <i>Now coded as: B04-F09+</i>	1986-1993	B04-B02D1	.. <b>Steroidal hormones (no complete structure)</b>  <i>Now coded as: B04-J02</i>	1986-1993
B04-B02B3	.. <b>Algae</b> e.g. Spirogyra.  <i>Now coded as: B04-F08</i>	1986-1993	B04-B02D2	.. <b>Pancreatic hormones</b>  <i>Now coded as: B04-J03+</i>	1986-1993
B04-B02B4	.. <b>Viruses</b>  <i>Now coded as: B04-F11</i>	1986-1993	B04-B02D3	.. <b>Thyroid and parathyroid hormone</b> e.g. calcitonin, thyrocalcitonin, parathyroid hormone and their derivatives.  <i>Now coded as: B04-J04+</i>	1986-1993
B04-B02B5	.. <b>Others</b> e.g. Mycoplasma.  <i>Now coded as: B04-F06, B04-F07, B04-F10A4</i>	1986-1993	B04-B02D4	.. <b>Pituitary gland hormones</b> e.g. neurohypophyseal, intermedin, chromophorotropic, melanocyte stimulating, melanophoric hormone, adreno-corticotrophic hormone (ACTH), corticotrophic, follicle stimulating (FSH), interstitial cell stimulating, prolactin, ammotrophin, somatotrophin, thyroid stimulating, thyrotrophic, thyrotrophin, vasopressin, chorionic gonadotrophin, luteinising, growth and their derivatives.  <i>Now coded as: B04-J05+</i>	1986-1993
B04-B02C	. <b>Enzymes general</b> The code B04-B02C is used when the type of enzyme is unspecified. When specific enzymes are given then these are coded in B04-B02C1 to B04-B02C7 in preference to B04-B02C.  <i>Now coded as: B04-L01</i>	1965-1993	B04-B02E	. <b>Prostaglandins</b> From 197501 prostaglandins are coded B04-B02E only, and no longer according to their chemical structure.  <i>Now coded as: B04-H03+</i>	1975-1993
B04-B02C1	.. <b>Coenzymes</b>  <i>Now coded as: B04-L02</i>	1977-1993	B04-B03	<b>Nucleosides and nucleotides general</b> Coenzymes which are nucleotides are also coded B04-B02C1 (before 1994) or B04-L02 (from 1994). Nucleosides and nucleotides containing xanthine bases are coded B04-B03+ and not B04-A06.	1965
B04-B02C2	.. <b>Oxidoreductases</b>  <i>Now coded as: B04-L03+</i>	1977-1993	B04-B03A	. <b>Nucleosides</b> e.g. Adenosine, guanosine, inosine, cytidine, uridine, thymidine. From 2005 chemically modified nucleosides are coded B04-B03D.	1986
B04-B02C3	.. <b>Hydrolases</b> e.g. chymotrypsin, trypsin, papain, fibrinolysin, streptokinase, streptodornase, collagenase, plasmin, plasminogen.  <i>Now coded as: B04-L05+</i>	1977-1993	B04-B03B	. <b>Nucleotides</b> e.g. Adenylic acid, cytidylic acid. From 2005 chemically modified nucleotides are coded B04-B03E.	1986
B04-B02C4	.. <b>Transferases</b>  <i>Now coded as: B04-L04+</i>	1986-1993	B04-B03C	. <b>Oligonucleotides</b> This code is applied whenever the term "Oligonucleotide" is used in a patent, or otherwise to chains of 3 to 6 nucleotide units.  <i>Previous code(s): B04-B04A1, B04-B03B</i>	1994
B04-B02C5	.. <b>Lyases</b>  <i>Now coded as: B04-L06</i>	1986-1993	B04-B03D	. <b>Modified nucleosides</b> E.g. C in ring, open chain structure.  <i>Previous code: B04-B03A</i>	2005
B04-B02C6	.. <b>Isomerases</b>  <i>Now coded as: B04-L07</i>	1986-1993			
B04-B02C7	.. <b>Ligases (synthetases)</b>  <i>Now coded as: B04-L08</i>	1986-1993			
B04-B02D	. <b>Hormones and steroids general</b> The code B12-G04 or B04-C01 is not additionally applied with B04-B02D2 to B04-B02D4 unless a structure is given in the patent.  <i>Now coded as: B04-J01, B04-J02, B04-J03, B04-J04, B04-J05</i>	1965-1993			

B04-B03E	. <b>Modified nucleotides</b> E.g. C in ring, open chain structure. <b>2005</b> <i>Previous code: B04-B03B</i>	B04-B04C3	.. <b>Microbial antibody</b> <b>1986-1993</b> <i>Now coded as: B04-G07, B04-G08, B04-G09</i>
B04-B04	<b>Animal extract general</b> <b>1963-1965</b>	B04-B04C4	.. <b>Anticancer antibody</b> <b>1986-1993</b> <i>Now coded as: B04-G05</i>
B04-B04A	. <b>Proteins, nucleic acids, cells general</b> For antigens see B04-B04C. <b>1965-1993</b> <i>Now coded as: B04-E01, B04-F01, B04-N04, B04-N05, B04-N06</i>	B04-B04C5	.. <b>Monoclonal antibody</b> <b>1986-1993</b> <i>Now coded as: B04-G21</i>
B04-B04A1	.. <b>DNA, vector DNA, RNA, nucleic acids.</b> <b>1986-1993</b> <i>Now coded as: B04-E02+, B04-E03+, B04-E04, B04-E05, B04-E06, B04-E07, B04-E08</i>	B04-B04C6	.. <b>Other antibody including immunoglobulin and haemagglutinin</b> <b>1986-1993</b> <i>Now coded as: B04-G02, B04-G03, B04-G04, B04-G06, B04-G10, B04-G20, B04-G22</i>
B04-B04A2	.. <b>Plant cells</b> <b>1986-1993</b> <i>Now coded as: B04-F08</i>	B04-B04C7	.. <b>Haptens</b> A substance which can combine with antibody but cannot itself initiate an immune response unless it is attached to a carrier molecule. <b>1994</b> <i>Previous code(s): B04-B04C</i>
B04-B04A3	.. <b>Animal cells</b> For blood cells see B04-B04D, microbial cells see B04-B02B. <b>1986-1993</b> <i>Now coded as: B04-F02, B04-F05, B04-F07</i>	B04-B04C8	.. <b>Cancer antigen</b> <b>2005</b>
B04-B04A4	.. <b>Proteins from plants and mushrooms</b> e.g. gluten. <b>1986-1993</b> <i>Now coded as: B04-N01+</i>	B04-B04C9	.. <b>Allergen</b> An antigenic substance capable of producing immediate type hypersensitivity (i.e. an allergic reaction). The specific substance which is allergenic is also coded (e.g. B04-A08C2 + B04-A09C for pollen). <b>2005</b>
B04-B04A5	.. <b>Proteins from microorganisms</b> <b>1986-1993</b> <i>Now coded as: B04-N03+</i>	B04-B04D	. <b>Blood and derivatives general</b> <b>1965</b>
B04-B04A6	.. <b>Proteins from animals or insects</b> e.g. gelatin, egg white, glycoproteins, gamma globulins, silk. <b>1986-1993</b> <i>Now coded as: B04-N02+</i>	B04-B04D1	.. <b>Blood cells and derivatives</b> Including leucocytes, erythrocytes, lymphocytes. These are not coded under B04-B04A3. <b>1986-1993</b> <i>Now coded as: B04-F04</i>
B04-B04B	. <b>Animal excrements general</b> <b>1965</b>	B04-B04D2	.. <b>Blood proteins</b> Excluding blood factors. e.g. serum albumin, haemoglobin, fibrinogen (prior to 198601 see also B04-B04A). From 1994 all clotting factors including fibrin and fibrinogen are coded under B04-H19. <b>1986</b>
B04-B04B1	.. <b>Urine</b> <b>1994</b> <i>Previous code(s): B04-B04B</i>	B04-B04D3	.. <b>Blood factors</b> e.g. clotting factors, thrombin (see also B04-B02C3 for prothrombin, fibrinogen). <b>1986-1993</b> <i>Now coded as: B04-H01, B04-H13, B04-H14, B04-H15, B04-H19</i>
B04-B04B2	.. <b>Faeces</b> <b>1994</b> <i>Previous code(s): B04-B04B</i>	B04-B04D4	.. <b>Blood serum, plasma</b> Excluding B04-B04D2/3. <b>1986</b>
B04-B04C	. <b>Antigens, general Antibody (pre-1994)</b> <b>1965</b> <i>Previous code(s): B04-G01</i>		
B04-B04C1	.. <b>Microbial antigen</b> When used as a vaccine then B02-V02 is coded (before 1994) or B14-S11+ (from 1994). <b>1986</b>		
B04-B04C2	.. <b>Other antigens</b> Material which is antigenic is also coded. <b>1986</b>		



B04-B04D5	.. <b>Whole blood</b> Excluding B04-B04D1 to B04-B04D4. 1986	B04-C01C	. 11 to 15 alpha amino acid residues 1986
B04-B04E	. <b>Bone, marrow, nails, teeth</b> Includes, horn extract, shell extract, hair and shell powder, and oyster shell. 1965	B04-C01D	. 16 to 20 alpha amino acid residues 1986
B04-B04F	. <b>Enzyme inhibitors</b> 1965-1993 <i>Now coded as: B04-M01</i>	B04-C01E	. 21 to 25 alpha amino acid residues 1986
B04-B04G	. <b>Gland extracts</b> Including snake venom, but excluding hormones. 1965	B04-C01F	. 26 to 30 alpha amino acid residues 1986
B04-B04H	. <b>Heart, kidney, liver, placenta, nerve, brain extracts</b> 1965	B04-C01G	. 31 or more alpha amino acid residues This code also includes proteins of defined amino acid sequence. 1986
B04-B04J	. <b>Metabolic factors</b> 1965-1993 <i>Now coded as: B04-H01, B04-H04+, B04-H06+, B04-H08, B04-H09, B04-H10, B04-H12, B04-H13, B04-H14, B04-H16, B04-H17, B04-H18</i>	B04-C01H	. <b>Modified and/or cyclic peptides</b> Includes analogues. Should be applied in conjunction with a length code selected from B04-C01A to B04-C01G. Not used for peptides cyclised purely by disulfide bridge formation. 2005
B04-B04K	. <b>Milk</b> Including derivatives. 1965	B04-C02	<b>Polysaccharides general</b> These must contain at least 7 sugar residues in sequence.
B04-B04L	. <b>Other mammalian extracts</b> This code is used for mammalian extracts only (from 1994). For whole mammals see B04-P. 1965	B04-C02A	. <b>Cellulose and derivatives</b> 1986
B04-B04M	. <b>Other non-mammalian extracts</b> This code is used for non-mammalian extracts only (from 1994). For whole animals see B04-P. 1965	B04-C02A1	.. <b>Unmodified cellulose</b> 1986
B04-C	<b>POLYMERS</b> The generic codes B04-C01, B04-C02 and B04-C03 are only used for general disclosures which would otherwise require several specific codes. Therefore when a specific code is searched, the corresponding generic code must also be searched.	B04-C02A2	.. <b>Cellulose ethers</b> e.g. carboxymethylcellulose. 1986
B04-C01	<b>Polypeptides general</b> Polypeptides containing four or more peptide units are coded from B04-C01A to B04-C01G only, tripeptides are coded both B04-C01A and according to their chemical structure (in B05 to B10) and dipeptides are coded according to their chemical structures only. Cystine represents two amino acid residues. Polypeptide/protein sequences are further coded under B04-N.	B04-C02A3	.. <b>Cellulose esters</b> e.g. cellulose acetate. 1986
B04-C01A	. 3 to 5 alpha amino acid residues 1986	B04-C02B	. <b>Starch, dextrin and derivatives</b> 1986
B04-C01B	. 6 to 10 alpha amino acid residues 1986	B04-C02B1	.. <b>Cyclodextrin and derivatives</b> 1986
		B04-C02B2	.. <b>Unmodified starch</b> 1986
		B04-C02B3	.. <b>Modified starch</b> Includes derivatives of starch such as carboxymethylstarch. 2010 <i>Previous code(s): B04-C02B</i>
		B04-C02C	. <b>Dextran</b> 1986
		B04-C02D	. <b>Polysaccharides from plant</b> Excluding cellulose, starch, dextran. Including pectin, plant gums, alginates, agar. 1986
		B04-C02E	. <b>Polysaccharides from animal, bird, reptile, or insect</b> 1986
		B04-C02E1	.. <b>Heparin (optionally modified)</b> 1986
		B04-C02E2	.. <b>Chondroitin (optionally modified)</b> 1986

B04-C02E3	.. <b>Chitin (optionally modified)</b> The code B04-C02F can also be searched if chitin is obtained from fungal source.	1986
B04-C02F	. <b>Polysaccharides from microbial sources</b> Polysaccharide which is modified microbiologically can also be searched under the code for the original polysaccharide.	1986
B04-C02V	. <b>Lipopolysaccharide</b> <i>Previous code(s): B04-C02, B04-B01B</i>	1994
B04-C02X	. <b>Oligosaccharides</b> This code is applied whenever the term oligosaccharide is used in a patent, or otherwise to chains of 3 to 6 sugar units. Tetrahydropyran(furan) are not coded unless they are ring modified.	1994
B04-C03	<b>Polymers general</b>	
B04-C03A	. <b>Poly N-vinyl-lactams</b>	1975
B04-C03B	. <b>Other addition</b>	1975
B04-C03C	. <b>Polyethers</b> Including thioethers and sulphides.	1975
B04-C03D	. <b>Natural, other condensation</b>	1975
B04-C03E	. <b>Dendrimers</b>	2002
B04-C03F	. <b>Silicones</b> <i>Previous code: B04-C03D</i>	2005
B04-D	<b>OTHER NATURAL PRODUCTS</b>	
B04-D01	<b>Sugars (mono- or disaccharides)</b> This code is used for sugars of undefined structure only, or when the sugar is an essential ingredient of a pharmaceutical composition.	
B04-D02	<b>Others</b>	
B04-D03	<b>Biomass</b> <i>Previous code(s): B04-A07D, B04-A07F, B04-B02B, B04-B04B, B04-B04L, B04-B04M</i>	1994

B04-E	<b>NUCLEIC ACIDS</b> Nucleic acids contain 7 or more nucleotide residues. E suffix is not appended to the codes in this section.	1994
B04-E01	<b>Nucleic acid general and other</b> This code covers only non-specific or general nucleic acids. It is not used to replace three or more codes for specific forms of DNA/RNA which are all coded individually in section B04-E02 to B04-E08. For example, if a patent claims: (1) a DNA sequence comprising a gene coding for a 5-HT receptor. (2) a plasmid containing (1). (3) a nucleic acid probe. (4) an antisense oligonucleotide. the codes are: B04-B03C, B04-E03D, B04-E05, B04-E06, B04-E08. <i>Previous code(s): B04-B04A1</i>	1994
B04-E02	<b>Altered DNA coding sequences</b> These codes include engineered, recombinant constructs, chimeric genes, heterologous genes, fusion genes, allelic variants and mutant alleles. The codes include RNA transcripts of these sequences. <i>Previous code(s): B04-B04A1</i>	1994
B04-E02A	. <b>Encoding antibodies</b> <i>Previous code(s): B04-B04A1</i>	1994
B04-E02B	. <b>Encoding modifiers of cell function and growth</b> <i>Previous code(s): B04-B04A1</i>	1994
B04-E02C	. <b>Encoding hormones</b> <i>Previous code(s): B04-B04A1</i>	1994
B04-E02D	. <b>Encoding receptors</b> <i>Previous code(s): B04-B04A1</i>	1994
B04-E02E	. <b>Encoding enzymes</b> <i>Previous code(s): B04-B04A1</i>	1994
B04-E02F	. <b>Encoding other protein/ polypeptide</b> <i>Previous code(s): B04-B04A1</i>	1994
B04-E02G	. <b>Oncogene</b>	2002
B04-E02H	. <b>Encoding fusion protein</b>	2002
B04-E02J	. <b>Encoding antigens</b> <i>Previous code(s): B04-E02F</i>	2007
B04-E02K	. <b>Encoding nucleic acid</b>	2009

B04-E03	<b>Other DNA coding sequences</b> These codes cover wild type genes and their fragments, and include their RNA transcripts. 1994 <i>Previous code(s): B04-B04A1</i>	B04-E07A	<b>Ribozyme</b> An RNA molecule that has catalytic activity. 2005
B04-E03A	<b>. Encoding antibodies</b> 1994 <i>Previous code(s): B04-B04A1</i>	B04-E07B	<b>. DNAzyme</b> A DNA molecule that has catalytic activity. 2005
B04-E03B	<b>. Encoding modifiers of cell function and growth</b> 1994 <i>Previous code(s): B04-B04A1</i>	B04-E07C	<b>. siRNA (short interfering RNA)</b> Double stranded short RNA molecules that bind to RNA and target them for degradation and/or destruction. 2005
B04-E03C	<b>. Encoding hormones</b> 1994 <i>Previous code(s): B04-B04A1</i>	B04-E07D	<b>. miRNA</b> Micro RNA. 2005
B04-E03D	<b>. Encoding receptors</b> 1994 <i>Previous code(s): B04-B04A1</i>	B04-E07E	<b>. shRNA (small hairpin RNA)</b> 2006
B04-E03E	<b>. Encoding enzymes</b> 1994 <i>Previous code(s): B04-B04A1</i>	B04-E07F	<b>. Aptamer</b> 2007
B04-E03F	<b>. Encoding other protein/polypeptide</b> 1994 <i>Previous code(s): B04-B04A1</i>	B04-E08	<b>Vectors, plasmids, cosmids, transposons</b> Viral vectors are also coded under virus (B04-F11). 1994 <i>Previous code(s): B04-B04A1</i>
B04-E03G	<b>. Oncogene</b> 2002	B04-E09	<b>Single Nucleotide Polymorphism (SNP)</b> 2002
B04-E03H	<b>. Encoding fusion protein</b> 2002-2008	B04-E10	<b>Peptide nucleic acid</b> 2002
B04-E03J	<b>. Encoding antigens</b> 2007 <i>Previous code(s): B04-E03F</i>	B04-E11	<b>Other analog nucleic acid</b> 2002
B04-E03K	<b>. Encoding nucleic acid</b> 2009	B04-E12	<b>Reporter gene/marker gene</b> 2002
B04-E04	<b>Promoters, enhancers, regulatory sequences, upstream activating sequences</b> 1994 <i>Previous code(s): B04-B04A1</i>	B04-F	<b>CELLS, MICROORGANISMS, TRANSFORMANTS, HOSTS</b> E suffix is appended to codes for cells which are products of genetic manipulation, but not to naturally occurring mutant microbial strains, products of cell fusion or mutagenesis. 1994
B04-E05	<b>Primers, probes</b> Probes can be coded in conjunction with B12-K04A codes, e.g. a probe for detecting cancer is coded B04-E05 and B12-K04A1. A new method for diagnosing cancer utilising probes is coded B04-E05, B11-C08E5 and B12-K04A1. 1994 <i>Previous code(s): B04-B04A1</i>	B04-F01	<b>#Cells, microorganisms, transformants, hosts, cell lines, tissue general</b> 1994 <i>Previous code(s): B04-B02B, B04-B04A, B04-B04D1</i>
B04-E06	<b>Antisense sequences</b> Excluding antisense probes. 1994 <i>Previous code(s): B04-B04A1</i>	B04-F02 #	<b>Mammal (including human)</b> 1994 <i>Previous code(s): B04-B04A3</i>
B04-E07	<b>Other non-coding sequences</b> This code includes ribozyme, ribosomal, transfer and mitochondrial nucleic acids. 1994 <i>Previous code(s): B04-B04A1</i>	B04-F02A #	<b>. Cancer cells/Carcinoma</b> 2002
		B04-F02B #	<b>. Stem cells</b> Cell that can replicate indefinitely and differentiate into other cells. 2005
		B04-F03	<b>#Sperm, ova (germ cells)</b> 1994 <i>Previous code(s): B04-B02D</i>

B04-F04	<b>#Blood cells (general)</b> This code covers non-specific blood cells or when three or more specific types of blood cell are mentioned. <i>Previous code(s): B04-B04D1</i>	1994	B04-F07C #	. Reptile	2002
B04-F04A #	. <b>Red blood cells</b> <i>Previous code(s): B04-F04</i>	2006	B04-F07D #	. Fish	2002
B04-F04B #	. <b>White blood cells (general)</b> This code is used when non-specific white blood cells are mentioned or when three or more white blood cell types are mentioned. <i>Previous code(s): B04-F04</i>	2006	B04-F07E #	. Avian cell	2006
B04-F04B1 #	.. <b>Lymphocytes</b> <i>Previous code(s): B04-F04</i>	2006	B04-F08 #	<b>Plant/algae</b> <i>Previous code(s): B04-B04A2, B04-B02B3</i>	1994
B04-F04B1A #	... <b>T-lymphocytes</b> <i>Previous code(s): B04-F04</i>	2006	B04-F08A #	. <b>Algae</b>	
B04-F04B1B #	... <b>B-lymphocytes</b> <i>Previous code(s): B04-F04</i>	2006	B04-F09 #	<b>Yeast/fungus general and other</b> <i>Previous code(s): B04-B02B2</i>	1994
B04-F04B2 #	.. <b>Other white blood cells</b> <i>Previous code(s): B04-F04</i>	2006	B04-F09A #	. <b>Aspergillus</b> e.g. A. nidulans, A. fumigatus, A. flavus, A. niger, A. oryzae. <i>Previous code(s): B04-B02B2</i>	1994
B04-F04B2A #	... <b>Dendritic cells</b> <i>Previous code(s): B04-F04</i>	2006	B04-F09B #	. <b>Neurospora</b> e.g. N. crassa. <i>Previous code(s): B04-B02B2</i>	1994
B04-F04B2B #	.. <b>Macrophages</b> <i>Previous code(s): B04-F04</i>	2006	B04-F09C #	. <b>Saccharomyces</b> e.g. S. pombe, S. cerevisiae (brewer's yeast). <i>Previous code(s): B04-B02B2</i>	1994
B04-F04B2C #	.. <b>Neutrophil</b> <i>Previous code(s): B04-F04</i>	2006	B04-F09D #	. <b>Pichia pastoris yeast</b>	2005
B04-F04B2D #	.. <b>Others</b> <i>Previous code(s): B04-F04</i>	2006	B04-F10 #	<b>Bacteria general</b> <i>Previous code(s): B04-B02B1</i>	1994
B04-F05 #	<b>Hybridoma</b> <i>Previous code(s): B04-B04A3</i>	1994	B04-F10A #	. <b>Gram-negative genera, general and other</b> <i>Previous code(s): B04-B02B1</i>	1994
B04-F05A #	. <b>Chimeric &amp; fused cells</b> Cells comprising or formed from components derived from two separate cell types, not including hybridomas coded under B04-F05.	2005	B04-F10A1 #	.. <b>Bordetella</b> e.g. B. pertussis. <i>Previous code(s): B04-B02B1</i>	1994
B04-F06 #	<b>Protozoa</b> <i>Previous code(s): B04-B02B5</i>	1994	B04-F10A2 #	.. <b>Borrelia</b> <i>Previous code(s): B04-B02B1</i>	1994
B04-F07	<b>#Other animal</b> <i>Previous code(s): B04-B04A3</i>	1994	B04-F10A3 #	.. <b>Escherichia</b> e.g. E. coli. <i>Previous code(s): B04-B02B1</i>	1994
B04-F07A #	. <b>Insect</b>	2002	B04-F10A4 #	.. <b>Mycoplasma</b> e.g. M. pneumoniae, M. mycoides. <i>Previous code(s): B04-B02B1</i>	1994
B04-F07B #	. <b>Amphibian</b>	2002	B04-F10A5 #	.. <b>Neisseria</b> e.g. N. gonorrhoeae, N. meningitidis. <i>Previous code(s): B04-B02B1</i>	1994
			B04-F10A6 #	.. <b>Pseudomonas</b> e.g. P. aeruginosa, P. mallei. <i>Previous code(s): B04-B02B1</i>	1994

B04-F10A7 #	.. <b>Rickettsia</b> e.g. R. prowazekii.  <i>Previous code(s): B04-B02B1</i>	1994	B04-F12	<b>Minicells &amp; organelles</b> E.g. mitochondria and any sub-cellular particle. No E suffixed code for the recombinant form exists.	2005
B04-F10A8 #	.. <b>Salmonella</b> e.g. S. typhi.  <i>Previous code(s): B04-B02B1</i>	1994	B04-F13	<b>Platelets</b>	2010
B04-F10A9 #	.. <b>Vibrio</b> e.g. V. cholerae, V. parahaemolyticus.  <i>Previous code(s): B04-B02B1</i>	1994	B04-G	<b>ANTIBODY DEFINED IN TERMS OF ANTIGEN</b> E suffix is appended only when the antibody is produced by genetic methods beyond standard hybridoma technology.	1994
B04-F10B #	. <b>Gram-positive genera, general and other</b>  <i>Previous code(s): B04-B02B1</i>	1994	B04-G01 #	<b>General and other</b>  <i>Previous code(s): B04-B04C</i>	1994
B04-F10B1 #	.. <b>Bacillus</b> e.g. B. subtilis.  <i>Previous code(s): B04-B02B1</i>	1994	B04-G01A	. <b>Chimeric antibody</b> An antibody genetically engineered to contain the variable fragment from one species fused to the constant region from another species.	2005
B04-F10B2 #	.. <b>Mycobacteria</b> e.g. M. tuberculosis, M. bovis, M. leprae, M. phlei, BCG.  <i>Previous code(s): B04-B02B1</i>	1994	B04-G01B #	. <b>Human antibody</b> An antibody produced from a single human cell line.	2005
B04-F10B3 #	.. <b>Staphylococcus</b> e.g. S. aureus, S. epidermidis.  <i>Previous code(s): B04-B02B1</i>	1994	B04-G01C	. <b>Humanised antibody</b> An antibody from a single cell line genetically engineered to contain around 90% human protein, reducing the likelihood of an immune response.	2005
B04-F10B4 #	.. <b>Streptococcus</b> e.g. S. pyogenes, S. faecalis.  <i>Previous code(s): B04-B02B1</i>	1994	B04-G01D #	. <b>Murine antibody</b> An antibody produced from a single mouse cell line.	2005
B04-F10B5 #	.. <b>Streptomyces</b> e.g. S. griseus, S. scabies.  <i>Previous code(s): B04-B02B1</i>	1994	B04-G02 #	<b>Antimodifier of cell function and growth, antihormone antibody</b>  <i>Previous code(s): B04-B04C6</i>	1994
B04-F11 #	<b>Viruses</b> Including bacteriophage lambda and viral vectors.  <i>Previous code(s): B04-B02B4</i>	1994	B04-G03 #	<b>Antienzyme antibody</b>  <i>Previous code(s): B04-B04C6</i>	1994
B04-F11A #	. <b>DNA virus general</b> Virus that infects foreign DNA into host cell, which then produces viral protein.	2005	B04-G04 #	<b>Antireceptor antibody</b>  <i>Previous code(s): B04-B04C6</i>	1994
B04-F11A1 #	.. <b>Adenovirus</b> Includes adeno-associated virus.	2007	B04-G05 #	<b>Anticancer cell antibody</b>  <i>Previous code(s): B04-B04C4</i>	1994
B04-F11B #	. <b>RNA virus general</b> Virus that infects foreign RNA into host cell, where the DNA sequence is then transcribed and viral protein produced.	2005	B04-G06 #	<b>Antiblood cells antibody</b> e.g. antibody to T-cell, B-cell.  <i>Previous code(s): B04-B04C6</i>	1994
B04-F11B1 #	.. <b>Retrovirus</b>	2007	B04-G07 #	<b>Antibacteria antibody</b>  <i>Previous code(s): B04-B04C3</i>	1994
			B04-G08 #	<b>Antivirus antibody</b>  <i>Previous code(s): B04-B04C3</i>	1994

B04-G09	<b>#Antimicroorganisms (other) antibody</b> <i>Previous code(s): B04-B04C3</i> 1994	B04-H02 #	<b>Interleukins general and other</b> <i>Previous code(s): B04-C01G</i> 1994
B04-G10 #	<b>Antiplant antibody</b> <i>Previous code(s): B04-B04C6</i> 1994	B04-H02A #	<b>. Interleukin 1</b> <i>Previous code(s): B04-C01G</i> 1994
B04-G11 #	<b>Antibody binding to another antibody</b> 2006	B04-H02B #	<b>. Interleukin 2</b> <i>Previous code(s): B04-C01G</i> 1994
B04-G20 #	<b>Catalytic antibodies</b> Including abzyme. This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another B04-G code. 1994 <i>Previous code(s): B04-B04C6</i>	B04-H02C #	<b>. Interleukin 3 (Multi-CSF)</b> <i>Previous code(s): B04-C01G</i> 1994
B04-G21 #	<b>Monoclonal antibody</b> This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another B04-G code. 1994 <i>Previous code(s): B04-B04C5</i>	B04-H02D #	<b>. Interleukin 4</b> <i>Previous code(s): B04-C01G</i> 1994
B04-G22 #	<b>Polyclonal antibodies</b> This code defines antibodies other than in terms of their antigen and can be applied in conjunction with another B04-G code. 1994 <i>Previous code(s): B04-B04C6</i>	B04-H02F #	<b>. Interleukin 5</b> <i>Previous code(s): B04-C01G</i> 1994
B04-G23 #	<b>Antibody fragments</b> 2006	B04-H02G #	<b>. Interleukin 6</b> <i>Previous code(s): B04-C01G</i> 1994
B04-G24 #	<b>Bispecific antibodies</b> 2006	B04-H02H #	<b>. Interleukin 7</b> <i>Previous code(s): B04-C01G</i> 1994
B04-G25 #	<b>Anti-prion protein antibodies</b>	B04-H02J #	<b>. Interleukin 8 (NAP " Neutrophil Activating Protein")</b> 1994 <i>Previous code(s): B04-C01G, B04-B04A</i>
B04-H	<b>MODIFIERS OF CELL FUNCTION AND GROWTH</b> The term "modifier of cell function and growth" includes biological response modifiers (immune system mediators) such as: prostaglandins, cytokines, monokines, interleukins, lymphokines (a subset of interleukins), CSF's, interferons, the growth factors, somatomedins and blood factors. All of these are proteins except for prostaglandins. The E suffix is appended to codes for molecules produced by exogenous gene expression in host cells as well as derivatives modified at the genetic level. 1994	B04-H02K #	<b>. Interleukin 9</b> <i>Previous code(s): B04-C01G</i> 1994
B04-H01 #	<b>Modifier of cell function and growth general and other</b> This code is applied when either a generic term such as cytokine, is used or when a specific substance does not fit into any category covered by B04-H02 to B04-H20B. It also includes blood factors general and other. 1994 <i>Previous code(s): B02-V03, B04-B02C, B04-B02E, B04-B04A, B04-B04D, B04-C01</i>	B04-H02L #	<b>. Interleukin 10</b> <i>Previous code(s): B04-C01G</i> 1994
		B04-H02M #	<b>. Interleukin 11</b> <i>Previous code(s): B04-C01G</i> 1994
		B04-H02N #	<b>. Interleukin 12</b> <i>Previous code(s): B04-C01G</i> 1994
		B04-H02P #	<b>. Interleukin 13</b> <i>Previous code(s): B04-C01G</i> 1994
		B04-H02Q #	<b>. Interleukins 14-20</b> <i>Previous code(s); B04-H02</i> 2006
		B04-H02R #	<b>. Interleukins 21-25</b> <i>Previous code(s): B04-H02</i> 2006
		B04-H02S #	<b>. Interleukins 26-30</b> <i>Previous code(s): B04-H02</i> 2006
		B04-H02T #	<b>. Interleukins 31-35</b> <i>Previous code(s): B04-H02</i> 2006
		B04-H03	<b>Prostaglandins general and other</b> <i>Previous code(s): B04-B02E</i> 1994

B04-H03A	. Prostaglandin E1	1994	B04-H06B #	. PDGF (Platelet Derived Growth Factor)	1994
	<i>Previous code(s): B04-B02E</i>			<i>Previous code(s): B04-B04J</i>	
B04-H03B	. Prostaglandin E2	1994	B04-H06C #	. MDGF (Macrophage Derived Growth Factor)	1994
	<i>Previous code(s): B04-B02E</i>			<i>Previous code(s): B04-B04J</i>	
B04-H03C	. Prostaglandin F2 alpha	1994	B04-H06D #	. NGF (Nerve Growth Factor)	1994
	<i>Previous code(s): B04-B02E</i>			<i>Previous code(s): B04-B04J</i>	
B04-H03D	. Prostacyclin (Prostaglandin I2)	1994	B04-H06F #	. TGF (Transforming Growth Factor)	1994
	<i>Previous code(s): B04-B02E, B06-A02</i>			<i>Previous code(s): B04-B04J</i>	
B04-H03F	. Leukotrienes	1994	B04-H06G #	.. FGF (Fibroblast Growth Factor)	1994
	<i>Previous code(s): B04-B02E, B07-A03, B10-B02D, B10-C04D</i>			<i>Previous code(s): B04-B04J</i>	
B04-H03G	. Thromboxanes	1994	B04-H06H #	. Somatomedins, sulphation factors This code includes IGF's (Insulin-like growth factors).	1994
	<i>Previous code(s): B04-B02E, B06-A02, B07-A02</i>			<i>Previous code(s): B04-B04J</i>	
B04-H04 #	CSF's (Colony Stimulating Factors) General and other	1994	B04-H06J #	. PGF (Prostatic Growth Factor)	1994
	<i>Previous code(s): B04-B04J</i>			<i>Previous code(s): B04-B04J</i>	
B04-H04A #	. G-CSF (Granulocyte Colony Stimulating Factor)	1994	B04-H06K #	. HGF (Hepatocyte Growth Factor)	1994
	<i>Previous code(s): B04-B04J</i>			<i>Previous code(s): B04-B04J</i>	
B04-H04B #	. M-CSF (Macrophage Colony Stimulating Factor)	1994	B04-H06L #	. Bone morphogenetic protein	2002
	<i>Previous code(s): B04-B04J</i>		B04-H06M #	. Vascular endothelial growth factor Also known as VEGF.	2006
B04-H04C #	. GM-CSF (Granulocyte Macrophage Colony Stimulating Factor)	1994		<i>Previous code(s): B04-H06</i>	
	<i>Previous code(s): B04-B04J</i>		B04-H07 #	Erythropoietin (Epo), thrombopoietin	1994, 2010
B04-H04D #	. MEG-CSF (Megakaryocyte Colony Stimulating Factor)	1994		<i>Previous code(s): B04-B04A6, B04-B02D, thrombopoietin B04-H06 (pre-2010)</i>	
	<i>Previous code(s): B04-B04J</i>		B04-H08 #	TNF (Tumour Necrosis Factor)	1994
B04-H05 #	Interferons General and other	1994		<i>Previous code(s): B04-B04J</i>	
	<i>Previous code(s): B02-V03</i>		B04-H09 #	LIF (Leukemia inhibitory factor)	1994
B04-H05A #	. Interferon alpha	1994		<i>Previous code(s): B04-B04J</i>	
	<i>Previous code(s): B02-V03</i>		B04-H10 #	Mullerian inhibitory substance (MIS)	1994
B04-H05B #	. Interferon beta	1994		<i>Previous code(s): B04-B04J</i>	
	<i>Previous code(s): B02-V03</i>		B04-H11 #	MIP (Macrophage inflammatory protein)	1994
B04-H05C #	. Interferon gamma	1994		<i>Previous code(s): B04-B04A6</i>	
	<i>Previous code(s): B02-V03</i>		B04-H12 #	Megakaryocyte potentiator	1994
B04-H06 #	Growth factors general and other	1994		<i>Previous code(s): B04-B04A6, B04-B04J</i>	
	<i>Previous code(s): B04-B04J</i>		B04-H13	#Lymphotoxin (LT)	1994
B04-H06A #	. EGF (Epidermal Growth Factor)	1994		<i>Previous code(s): B04-B04A6, B04-B04D3, B04-B04J</i>	
	<i>Previous code(s): B04-B04J</i>				

B04-H14 #	<b>PAF (Platelet activating factor)</b> <i>Previous code(s): B04-B04D3, B04-B04J</i>	1994	B04-H20C #	. Muscle proteins general	2002
B04-H15 #	<b>PA (Plasminogen Activator)</b> <i>Previous code(s): B04-B02C3, B04-B04D3</i>	1994	B04-H20C1 #	.. Actin	2002
B04-H16	<b>#SCF (Stem Cell Factor)</b> <i>Previous code(s): B04-B04J</i>	1994	B04-H20C2 #	.. Myosin	2002
B04-H17 #	<b>T-Activin (TA, Thymic factor)</b> <i>Previous code(s): B04-B04A6, B04-B04J</i>	1994	B04-H20C3 #	.. Tropomyosin	2002
B04-H18 #	<b>Activin A (EDF "Erythroid differentiation factor")</b> <i>Previous code(s): B04-B04A6, B04-B04J</i>	1994	B04-H21 #	<b>Integrins</b>	2002
B04-H19 #	<b>Clotting factors</b> Including: thrombin (fibrinogenase, thrombase), prothrombin (thrombinogen, Factor II), fibrin, fibrinogen (Factor I), Factor III (tissue thromboplastin, tissue factor), Factor V (proaccelerin, accelerator globulin (AcG), labile factor), Factor VII (proconvertin, thrombokinase, autoprothrombin I, serum prothrombin conversion accelerator (SPCA), stable factor), Factor VIII (antihaemophilic globulin (AHG), antihaemophilic factor A), Factor IX (plasma thromboplastin component (PTC), autoprothrombin II, Christmas factor, antihaemophilic factor B), Factor X (Stuart factor, autoprothrombin C, Prower factor, Stuart-Prower factor, thrombokinase), Factor XI (plasma thromboplastin antecedent (PTA), antihaemophilic factor C), Factor XII (Hageman factor, glass contact, activation factor), Factor XIII (fibrin stabilising factor (FSF), fibrinase, Laki-Lorand factor (LLF), transglutaminase) and the platelet factors 1, 2, 3 & 4 etc. N.B. Factor IV, which is calcium, is coded B05-A01B. The clot-dissolving proteolytic enzyme plasmin (fibrinolysin) and plasminogen are coded B04-L05C. <i>Previous code(s): B04-B02C3, B04-B02D2, B04-B04D3, B04-C02B3</i>	1994	B04-J	<b>HORMONES</b>	1994
B04-H20 #	<b>Adhesion and Motor molecules general and other</b> e.g. LFA (lymphocyte function associated antigen), ICAM/VCAM (intercellular/vascular adhesion molecule). <i>Previous code(s): B04-B04A6, B04-B04C2</i>	1994	B04-J01	<b>#Hormones general and other</b> Hormones which are not covered by the B04-J03, B04-J04 and B04-J05 general sub-headings; and are not represented in B04-J06 to B04-J18 are coded here. e.g. generic terms such as hypothalamic, adrenergic, neuropeptide, gastrointestinal and insect hormones. <i>Previous code(s): B04-B02D</i>	1994
B04-H20A #	. <b>Fibronectin</b> <i>Previous code(s): B04-B04A6</i>	1994	B04-J02	<b>Steroidal Hormones (No Structure)</b> Includes all steroids where no structure is given. <i>Previous code(s): B04-B02D1</i>	1994
B04-H20B #	. <b>Vitronectin</b> <i>Previous code(s): B04-B04A6</i>	1994	B04-J03	<b>#Pancreatic hormone general and other</b> Including pancreatic polypeptide. <i>Previous code(s): B04-B02D2</i>	1994
			B04-J03A #	. <b>Insulin</b> <i>Previous code(s): B04-B02D2</i>	1994
			B04-J03B #	. <b>Glucagon</b> <i>Previous code(s): B04-B02D2</i>	1994
			B04-J04 #	<b>Thyroid and parathyroid general and other</b> N.B. thyroxine is coded B10-B02E. <i>Previous code(s): B04-B02D3</i>	1994
			B04-J04A #	. <b>Calcitonin</b> <i>Previous code(s): B04-B02D3</i>	1994
			B04-J04B #	. <b>Parathyroid hormone</b> <i>Previous code(s): B04-B02D3</i>	1994
			B04-J05 #	<b>Pituitary gland hormones general and other</b> Including prolactin and human growth hormone. <i>Previous code(s): B04-B02D4</i>	1994
			B04-J05A #	. <b>Oxytocin</b> <i>Previous code(s): B04-B02D4</i>	1994



B04-J05B #	. <b>ADH (Antidiuretic hormone)</b> Also known as vasopressin  <i>Previous code(s): B04-B02D4</i>	1994	B04-J14 #	<b>Tachykinins (Substance p = SP)</b>  <i>Previous code(s): B04-B02D</i>	1994
B04-J05D #	. <b>ACTH (Adrenocorticotrophic hormone "adrenocorticotropin")</b>  <i>Previous code(s): B04-B02D4</i>	1994	B04-J15 #	<b>Neurotensin</b>  <i>Previous code(s): B04-B02D</i>	1994
B04-J05F #	. <b>TSH (Thyroid Stimulating Hormone)</b>  <i>Previous code(s): B04-B02D4</i>	1994	B04-J16 #	<b>Ecdysone</b>  <i>Previous code(s): B04-B02D</i>	1994
B04-J05G #	. <b>MSH (Melanocyte stimulating hormone)</b>  <i>Previous code(s): B04-B02D4</i>	1994	B04-J17 #	<b>Juvenile hormone</b>  <i>Previous code(s): B04-B02D</i>	1994
B04-J05H #	. <b>Gonadotropins</b> Including FSH (follicle stimulating hormone), LH (luteinising hormone) and HMG (human menopausal gonadotropin).  <i>Previous code(s): B04-B02D4</i>	1994	B04-J18 #	<b>Angiotensin</b>  <i>Previous code(s): B04-B02D</i>	1994
B04-J05J #	. <b>STH (Somatotrophic growth hormone)</b>  <i>Previous code(s): B04-B02D4</i>	1994	B04-J19 #	<b>Melanin concentrating hormone</b> Also known as MCH, a 19 amino acid cyclic neuropeptide that is expressed mainly in the hypothalamus.  <i>Previous code(s): B04-B02D, B04-J01</i>	2005
B04-J06 #	<b>CRH (Corticotropin-releasing hormone)</b> Hormones covered by B04-J06 to B04-J18 are specific and other than steroidal, pancreatic, thyroid, parathyroid, and pituitary gland hormones.  <i>Previous code(s): B04-B02D</i>	1994	<b>B04-K RECEPTORS</b>		1994
B04-J07 #	<b>GN-RH (Gonadotropin-releasing hormone) (LH-RH=Luteinising hormone-releasing hormone)</b>  <i>Previous code(s): B04-B02D</i>	1994	B04-K01 #	<b>Receptor general and other</b> Including orphan G-protein coupled receptors. CD4: (1) is coded here when described simply as a receptor, (2) is coded B04-K01U when described as a viral receptor.  <i>Previous code(s): B04-B04A6</i>	1994
B04-J08 #	<b>TRH (Thyrotropin-releasing hormone)</b>  <i>Previous code(s): B04-B02D</i>	1994	B04-K01A #	. <b>Parasympathetic receptor (Cholinergic receptor)</b>  <i>Previous code(s): B04-B04A6</i>	1994
B04-J09	<b>#GH-RH, GH-RF, SRF (Growth hormone-releasing hormone/factor, somatotropin-releasing factor)</b>  <i>Previous code(s): B04-B02D</i>	1994	B04-K01B #	. <b>Sympathetic receptor (Adrenergic receptor, alpha and beta)</b>  <i>Previous code(s): B04-B04A6</i>	1994
B04-J10 #	<b>Somatostatin</b>  <i>Previous code(s): B04-B02D</i>	1994	B04-K01C #	. <b>Dopamine receptor</b>  <i>Previous code(s): B04-B04A6</i>	1994
B04-J11	<b>#Endorphins/enkephalins</b>  <i>Previous code(s): B04-B02D</i>	1994	B04-K01D #	. <b>Serotonin (5HT) receptor</b>  <i>Previous code(s): B04-B04A6</i>	1994
B04-J12 #	<b>Gastrin/Secretin/Motilin</b>  <i>Previous code(s): B04-B02D</i>	1994	B04-K01F #	. <b>Histamine (H1,H2) receptor</b>  <i>Previous code(s): B04-B04A6</i>	1994
B04-J13 #	<b>Cholecystokinin (CCK-PZ, Pancreozymin)</b>  <i>Previous code(s): B04-B02D</i>	1994	B04-K01G #	. <b>Interleukin receptor</b>  <i>Previous code(s): B04-B04A6</i>	1994
			B04-K01H #	. <b>Prostaglandin/leukotriene/thromboxane receptor</b>  <i>Previous code(s): B04-B04A6</i>	1994
			B04-K01J #	. <b>Growth factor receptor</b>  <i>Previous code(s): B04-B04A6</i>	1994

B04-K01K #	. Other modifier of cell function and growth receptor	1994	B04-K01X2 #	.. Thyroid receptor	2005
	<i>Previous code(s): B04-B04A6</i>		B04-K01Y #	. G-protein coupled receptor	2002
B04-K01L #	. Steroid receptor e.g. mineralocorticoid, corticosteroid, oestrogen receptor.	1994	B04-K01Y1 #	.. Melanin concentrating hormone receptor	2005
	<i>Previous code(s): B04-B04A6</i>		<hr/>		
B04-K01L1 #	.. Androgen receptors	2005	B04-L	<b>ENZYMES</b> Enzyme nomenclature is based whenever possible on the classification defined by the Commission on Biochemical Nomenclature.	1994
B04-K01L2 #	.. Oestrogen receptors	2005	B04-L01	<b>#Enzymes, catalytic proteins general and other</b>	1994
B04-K01L3 #	.. Corticosteroid receptors	2005		<i>Previous code(s): B04-B02C</i>	
B04-K01L4 #	.. Other steroid receptors	2005	B04-L02 #	<b>Coenzymes</b>	1994
B04-K01M #	. Insulin receptor	1994		<i>Previous code(s): B04-B02C1</i>	
	<i>Previous code(s): B04-B04A6</i>		B04-L03	<b>#Oxidoreductases general and other</b>	1994
B04-K01N #	. Angiotensin receptor	1994		<i>Previous code(s): B04-B02C2</i>	
	<i>Previous code(s): B04-B04A6</i>		B04-L03A #	. Oxidases	1994
B04-K01P #	. Other hormone receptor	1994		<i>Previous code(s): B04-B02C2</i>	
	<i>Previous code(s): B04-B04A6</i>		B04-L03B #	. Peroxidases	1994
B04-K01Q #	. Lipoprotein (LDL, HDL) receptor	1994		<i>Previous code(s): B04-B02C2</i>	
	<i>Previous code(s): B04-B04A6</i>		B04-L03C #	. Oxygenases Including cytochrome P450.	1994
B04-K01R #	. Blood cell or blood cell antigen receptor	1994		<i>Previous code(s): B04-B02C2</i>	
	<i>Previous code(s): B04-B04A6</i>		B04-L03D #	. Dehydrogenases, reductases	1994
B04-K01S #	. Cancer cell or cancer cell antigen receptor	1994		<i>Previous code(s): B04-B02C2</i>	
	<i>Previous code(s): B04-B04A6</i>		B04-L03E #	. Lipoxxygenases	2002
B04-K01T #	. Bacterial or bacterial antigen receptor	1994	B04-L04 #	<b>Transferases general and other</b>	1994
	<i>Previous code(s): B04-B04A6</i>			<i>Previous code(s): B04-B02C4</i>	
B04-K01U #	. Viral or viral antigen receptor	1994	B04-L04A #	. DNA/RNA polymerases	1994
	<i>Previous code(s): B04-B04A6</i>			<i>Previous code(s): B04-B02C4</i>	
B04-K01V #	. Other cell, microbe or antigen receptor	1994	B04-L04B #	. Reverse transcriptase	1994
	<i>Previous code(s): B04-B04A6</i>			<i>Previous code(s): B04-B02C4</i>	
B04-K01W #	. Antibody receptor	1994	B04-L04C #	. Kinases Any of several enzymes that catalyse the transfer of a phosphate group from ATP to a second substrate.	2005
	<i>Previous code(s): B04-B04A6</i>			<i>Previous code(s): B04-L04</i>	
B04-K01X #	. Non-steroidal nuclear (hormone) receptor	2002	B04-L05	<b>#Hydrolases general and other</b> Including beta-lactamases.	1994
B04-K01X1 #	.. Peroxisome proliferator activated receptor (Orphan receptor) Also known as PPAR.	2005		<i>Previous code(s): B04-B02C3</i>	

B04-L05A #	. <b>Esterases</b> Including lipases, nucleases, restriction enzymes, sulphatases, phosphatases. 1994 <i>Previous code(s): B04-B02C3</i>	B04-N01B #	. <b>Fragments of amino acid sequence given</b> 1994 <i>Previous code(s): B04-B04A4</i>
B04-L05A1 #	.. <b>Phosphodiesterases</b> 2005	B04-N02 #	<b>Animal protein/polypeptide (No sequence)</b> 1994 <i>Previous code(s): B04-B04A6,B04-C01</i>
B04-L05B #	. <b>Glycosidases</b> Including amylases, cellulases, lactases. 1994 <i>Previous code(s): B04-B02C3</i>	B04-N02A #	. <b>Complete amino acid sequence given</b> Codes B04-C01 to B04-C01G are also applied. 1994 <i>Previous code(s): B04-B04A6</i>
B04-L05C #	. <b>Proteases, peptide hydrolases</b> Including chymotrypsin, trypsin, apain, fibrinolysin, collagenases, elastases. 1994 <i>Previous code(s): B04-B02C3</i>	B04-N02B #	. <b>Fragments of amino acid sequence given</b> 1994 <i>Previous code(s): B04-B04A6</i>
B04-L05C1 #	.. <b>Metalloproteases</b> 2005	B04-N03 #	<b>Microorganism protein/polypeptide (No sequence)</b> 1994 <i>Previous code(s): B04-B04A5,B04-C01</i>
B04-L06 #	<b>Lyases</b> Including adenyl cyclases, (de)carboxylases, aldolases, dehydratases. 1994 <i>Previous code(s): B04-B02C5</i>	B04-N03A #	. <b>Complete amino acid sequence given</b> Codes B04-C01 to B04-C01G are also applied. 1994 <i>Previous code(s): B04-B04A5</i>
B04-L07 #	<b>Isomerases</b> Including racemases, tautomerases, epimerases, mutases. 1994 <i>Previous code(s): B04-B02C6</i>	B04-N03B #	. <b>Fragments of amino acid sequence given</b> 1994 <i>Previous code(s): B04-B04A5</i>
B04-L08	<b>#Ligases</b> Including synthetases, some carboxylases, aromatase. Excludes synthase. 1994 <i>Previous code(s): B04-B02C7</i>	B04-N03C #	. <b>Bacterial protein/polypeptide with complete amino acid sequence</b> Codes B04-C01 to B04-C01G are also applied. 2006
B04-L09 #	<b>Zymogen and other enzyme precursors</b> 2002	B04-N03D #	. <b>Bacterial protein/polypeptide with fragments of amino acid sequence</b> 2006
B04-M	<b>ENZYME INHIBITORS</b> 1994	B04-N03E #	. <b>Viral protein/polypeptide with complete amino acid sequence</b> Codes B04-C01 to B04-C01G are also applied. 2006
B04-M01 #	<b>Enzyme inhibitors general and other</b> This code is used for enzyme inhibitors with no structure only. 1994 <i>Previous code(s): B04-B04F</i>	B04-N03F #	. <b>Viral protein/polypeptide with fragments of amino acid sequence</b> 2006
B04-N	<b>OTHER PROTEIN/POLYPEPTIDE</b> This code is used only when a substance is not better defined in preceding sections, e.g. a protein with adenyl cyclase activity is coded B04-L06 only. 1994	B04-N03G #	. <b>Fungal protein/polypeptide with complete amino acid sequence</b> Codes B04-C01 to B04-C01G are also applied. 2006
B04-N01 #	<b>Plant protein/polypeptide (No sequence)</b> 1994 <i>Previous code(s): B04-B04A4,B04-C01</i>	B04-N03H #	. <b>Fungal protein/polypeptide with fragments of amino acid sequence</b> 2006
B04-N01A #	. <b>Complete amino acid sequence given</b> Codes B04-C01 to B04-C01G are also applied. 1994 <i>Previous code(s): B04-B04A4</i>	B04-N04 #	<b>Protein/polypeptide of undefined origin (No sequence)</b> 1994 <i>Previous code(s): B04-B04A,B04-C01</i>

B04-N04A #	<p><b>Complete amino acid sequence given</b> Codes B04-C01 to B04-C01G are also applied.</p> <p>1994</p> <p><i>Previous code(s): B04-B04A</i></p>
B04-N04B #	<p><b>Fragments of amino acid sequence given</b></p> <p>1994</p> <p><i>Previous code(s): B04-B04A</i></p>
B04-N05	<p><b>#Lipoprotein</b> HDL (high density lipoproteins), LDL (low density lipoproteins).</p> <p>1994</p> <p><i>Previous code(s): B04-B04A, B04-B01B</i></p>
B04-N06 #	<p><b>Glycoprotein, peptidoglycan and cytoskeletal proteins</b></p> <p>1994</p> <p><i>Previous code(s): B04-B04A</i></p>
B04-N07 #	<p><b>Ion channel protein</b></p> <p>2002</p>
B04-N08	<p><b>Fusion protein</b></p> <p>2002</p>
B04-N09 #	<p><b>Molecular chaperones and chaperonins</b> E.g. Heat shock proteins (HSP).</p> <p>2005</p> <p><i>Previous code(s): B04-N01, B04-N02, B04-N04</i></p>
B04-N10	<p><b>Prions</b> Protein pathogen responsible for e.g. Creutzfeldt-Jakob disease and kuru in humans and scrapie in sheep.</p> <p>2005</p> <p><i>Previous code: B04-N02</i></p>
B04-N11	<p><b>#Zinc finger proteins</b> Specialized proteins that contain a bound zinc ion or are capable of binding a zinc ion, and are associated with DNA binding proteins.</p> <p>2005</p> <p><i>Previous code(s): B04-N01, B04-N02, B04-N03, B04-N04</i></p>
B04-N12	<p><b>#Transcription factors general</b> A protein that binds DNA at a specific promoter or enhancer region where it activates and regulates transcription.</p> <p>2005</p> <p><i>Previous code(s): B04-N01, B04-N02, B04-N03, B04-N04</i></p>
B04-N13	<p><b>Signalling pathway proteins</b></p> <p>2006</p>
B04-N14#	<p><b>Peptidomimetics</b></p>
B04-N15	<p><b>Crystalline form</b> Used in conjunction with other specific protein codes for protein crystals.</p> <p>2010</p>

B04-P	<p><b>WHOLE ANIMALS</b> E suffix is appended to respective whole animal codes for transgenic animals.</p> <p>1994</p>
B04-P01 #	<p><b>Whole animals general and other</b></p> <p>1994</p> <p><i>Previous code(s): B04-B04L, B04-B04M</i></p>
B04-P01A #	<p><b>Laboratory experimental animals</b> e.g. mice, rats.</p> <p>1994</p> <p><i>Previous code(s): B04-B04L, B04-B04M</i></p>
B04-P01B #	<p><b>Farm animals</b> e.g. cows, sheep.</p> <p>1994</p> <p><i>Previous code(s): B04-B04L, B04-B04M</i></p>
B04-P01C #	<p><b>Arthropods</b></p> <p>1994</p> <p><i>Previous code(s): B04-B04M</i></p>

**B05 MISCELLANEOUS**

This section covers all inorganic compounds, and also all organic compounds containing elements other than H, C, N, O, S and halogens (other than the exceptions given in the notes). The order of priorities for this group is generally B01AB02C >> A01A >> A01B C01C08 (e.g. sodium phosphate is only coded as B05-B02A3). The exception to the above is when the anion (of the lower priority) of a metal salt is an important factor in the invention, e.g. effervescent compositions containing sodium bicarbonate are coded B05-C04 and not B05-A01B. Sub-group A elements (i.e. metals) when used as salts of organic compounds, are only coded in B05 if the metal is an essential limiting factor of the invention. Otherwise the compound is coded under the parent compound (i.e. acid, alcohol, etc.).

<b>B05-A</b>	<b>METALS AND COMPOUNDS</b>	
<b>B05-A01</b>	<b>Group 1, 2, 3 general</b>	1963-1965
<b>B05-A01A</b>	. <b>Potassium</b> This code is not used for organic compounds unless potassium is an essential pharmaceutically active limiting factor of the invention (e.g. K salts used for treating hypokalaemia).	1965
<b>B05-A01B</b>	. <b>Group 1a, 2a, 3a excluding K, B, Ra</b> This code is not used for organic compounds unless the metal is an essential pharmaceutically active limiting factor of the invention.	1965
<b>B05-A02</b>	<b>Group 4a, 5a excluding C, Si, N, P, As</b>	
<b>B05-A03</b>	<b>Transition metals, lanthanides general</b> The generic code B05-A03 is only used for general disclosures which would otherwise require several specific codes. Thus when a specific code is searched the corresponding generic code must also be searched.	
<b>B05-A03A</b>	. <b>Mn, Fe, Cu, Zn, Hg</b>	1975
<b>B05-A03A1</b>	.. <b>Mn compounds</b>	2005
<b>B05-A03A2</b>	.. <b>Fe compounds</b>	2005
<b>B05-A03A3</b>	.. <b>Cu compounds</b>	2005
<b>B05-A03A4</b>	.. <b>Zn compounds</b>	2005
<b>B05-A03A5</b>	.. <b>Hg compounds</b>	2005
<b>B05-A03B</b>	. <b>Others</b>	1975
<b>B05-A03B1</b>	.. <b>Titanium</b>	
<b>B05-A03B2</b>	.. <b>Silver</b>	

<b>B05-A03B3</b>	.. <b>Platinum</b> <i>Previous code(s): B05-A03B</i>	
<b>B05-A04</b>	<b>Radioactive elements and specific isotopes</b>	
<b>B05-A04A</b>	. <b>Deuterium</b>	2007
<b>B05-A04B</b>	. <b>Tritium</b>	2007
<b>B05-A04C</b>	. <b>Carbon isotopes</b> Excludes Carbon-12	2007
<b>B05-A04D</b>	. <b>Iodine isotopes</b> Excludes Iodine-127	2007
<b>B05-A04E</b>	. <b>Other radioactive isotope</b>	2007
<b>B05-A04F</b>	. <b>Other non-radioactive isotope</b>	2007
<b>B05-B</b>	<b>LESS COMMON NON-METALS AND COMPOUNDS</b>	
<b>B05-B01</b>	<b>B, Si, As, Se, P organic general</b>	1963-1965
<b>B05-B01A</b>	. <b>B organic</b>	1965
<b>B05-B01B</b>	. <b>Si organic</b>	1965
<b>B05-B01C</b>	. <b>As organic</b>	1965
<b>B05-B01D</b>	. <b>Se, Te, organic</b>	1965
<b>B05-B01E</b>	. <b>P-C bond heterocyclic</b>	1965
<b>B05-B01F</b>	. <b>P-C bond aromatic</b>	1965
<b>B05-B01G</b>	. <b>P-C bond (cyclo)aliphatic</b>	1965
<b>B05-B01H</b>	. <b>P-Hal bond organic</b>	1965
<b>B05-B01J</b>	. <b>P-N bond heterocyclic</b>	1965
<b>B05-B01K</b>	. <b>P-N bond aromatic</b>	1965
<b>B05-B01L</b>	. <b>P-N bond (cyclo)aliphatic</b>	1965
<b>B05-B01M</b>	. <b>P-O(S) bond heterocyclic</b>	1965
<b>B05-B01N</b>	. <b>P-O(S) bond aromatic</b>	1965
<b>B05-B01P</b>	. <b>P-O(S) bond (cyclo)aliphatic</b>	1965
<b>B05-B02</b>	<b>B, Si, As, Se, P inorganic, inert gases</b>	1963-1965

B05-B02A	. P and inorganic P compounds <b>general</b> The generic code B05-B02A is only used for general disclosures which would otherwise require several specific codes. Thus when a specific code is searched the corresponding generic code must also be searched.	1965
B05-B02A1	.. P acids production	1975
B05-B02A2	.. Ammonium salts of P acids This code is used also for mixtures containing only ammonium salts of P acids.	1975
B05-B02A3	.. P and inorganic P compounds	1975
B05-B02B	. As inorganic	1965
B05-B02C	. Si, Se, Te, B inorganic, inert gases	1965
B05-C	<b>MORE COMMON NON-METALS, COMPOUNDS</b>	
B05-C	<b>General</b>	
B05-C01	<b>N (ammonia) inorganic</b> After CPI Week 7501 ammonium salts of phosphorus acids have been coded B05-B02A2 .	1965
B05-C02	<b>N (nitrate) inorganic</b>	1965
B05-C03	<b>N (others) inorganic</b>	1965
B05-C04	<b>CO<sub>2</sub>, inorganic (bi)(thio)carbonates</b>	1965
B05-C05	<b>Inorganic S acids, S oxides</b>	1965
B05-C06	<b>Elemental C or S</b>	1965
B05-C07	<b>Inorganic compounds containing halogen</b> This code is not used for organic compounds unless a halogen is a member of a heterocyclic ring , or forms a part of an anion, and is an essential pharmaceutically active limiting factor of the invention (e.g. HF salts of amines used as dental agents).	1965
B05-C08	<b>Others</b>	1965
B05-U	<b>FULLERENE TYPE CAGE STRUCTURES</b>	1994
B05-U	<b>General</b>	1994
B05-U01	<b>Other than carbon only</b>	1994
B05-U02	<b>Carbon only</b>	1994

B05-U03	Carbon only nanotubes	2005
B05-U04	Carbon plus heteroatom nanotubes	2005
B05-U05	Other carbon containing 3-D structures	2005
B05-U05A	. Nanotubes, nanorods, nanohorns	2010
B05-U05B	. Nanofilms	2010
B05-U05C	. Nanostructures other than those covered by B05-U05A and B05-U05B	2010
B05-U06	Inorganic nanostructures	2005
B05-V	<b>METALLOCENES</b>	
B05-V	<b>Metallocenes</b> e.g. ferrocenes, titanocenes, zirconocenes	2010
	<i>Previous code(s): B05+</i>	

## B06 HETEROCYCLIC FUSED RING

This section is used for fused heterocyclic rings containing C and any of O, S and N. If any other elements are present, the structure is coded in B05. The specific rings listed in this section include all reduced derivatives and tautomers, unless specifically excluded. Specific ring systems present in a disclosed and claimed compound are individually coded, but if there is an essential fused heterocyclic ring and either an optional or a variable fused heterocyclic ring, only the essential ring is coded and neither the variable ring nor B06-H.

<b>B06-A</b>	<b>SOLE HETERO(S) OXYGEN</b>
<b>B06-A01</b>	<b>1-Benzo-(furan or pyran)</b>
<b>B06-A02</b>	<b>Others with 2 rings</b> (e.g. phenolphthalein)
<b>B06-A03</b>	<b>With more than 2 rings</b>
<b>B06-A03A</b>	<b>. Taxols, taxels</b> e.g. paclitaxel, docetaxel. Must contain an oxetane ring fused to the taxane skeleton

2006, 2010

<b>B06-B</b>	<b>SOLE HETERO(S) SULPHUR</b>
<b>B06-B01</b>	<b>With 2 rings</b>
<b>B06-B02</b>	<b>With more than 2 rings</b>
<b>B06-C</b>	<b>SOLE HETEROS O AND S</b>
<b>B06-C</b>	<b>General</b>
<b>B06-D</b>	<b>SOLE HETERO(S) NITROGEN</b>
<b>B06-D01</b>	<b>Indole</b>
<b>B06-D02</b>	<b>Quinoline</b>
<b>B06-D03</b>	<b>Isoindole, isoquinoline</b>
<b>B06-D04</b>	<b>Others with 2 rings and one N</b>
<b>B06-D05</b>	<b>With 2 rings (5+6 membered) and two N</b>
<b>B06-D06</b>	<b>With 2 rings (both 6 membered) and two N</b>
<b>B06-D07</b>	<b>Others with 2 rings and two N</b>
<b>B06-D08</b>	<b>With 2 rings and 3 N</b>
<b>B06-D09</b>	<b>With 2 rings and 4 N</b>
<b>B06-D10</b>	<b>With 2 rings and &gt; 4 N</b>
<b>B06-D11</b>	<b>Acridine</b>
<b>B06-D12</b>	<b>Dibenzo [b,f] azepine</b>
<b>B06-D13</b>	<b>Others with 3 rings and one N</b>
<b>B06-D14</b>	<b>Phenazine</b>
<b>B06-D15</b>	<b>Carbolines, phenanthrolines</b>
<b>B06-D16</b>	<b>Others with 3 rings and two N</b>
<b>B06-D17</b>	<b>With 3 rings and &gt; 2N</b>
<b>B06-D18</b>	<b>With more than 3 rings</b>

<b>B06-E</b>	<b>SOLE HETEROS O AND N</b>
<b>B06-E01</b>	<b>Benzoxazole, benzisoxazoles</b>
<b>B06-E02</b>	<b>Benzoxazines</b>
<b>B06-E03</b>	<b>Others with 2 rings</b>
<b>B06-E04</b>	<b>Phenoxazine</b>
<b>B06-E05</b>	<b>Others with more than 2 rings</b>
<b>B06-F</b>	<b>SOLE HETEROS S AND N</b>
<b>B06-F01</b>	<b>Benzothiazole, benzisothiazoles</b>
<b>B06-F02</b>	<b>Benzothiazines</b>
<b>B06-F03</b>	<b>Others with 2 rings</b>
<b>B06-F04</b>	<b>Phenothiazine</b>
<b>B06-F05</b>	<b>Others with more than 2 rings</b>
<b>B06-G</b>	<b>SOLE HETEROS O AND S AND N</b>
<b>B06-G</b>	<b>General</b>
<b>B06-H</b>	<b>FUSED RING, GENERAL</b> This code is used for general disclosures when either unspecified fused heterocyclic ring is present or several specific rings are present. Therefore when a specific code is searched, the corresponding generic code must also be searched.
<b>B06-H</b>	<b>General</b>

## B07 HETEROCYCLICS, MONONUCLEAR

This section is used for monoheterocyclic rings containing C and any of O, S and N. If any other elements are present, the structure is coded in B05 only. Likewise when a fused heterocyclic ring is present, the structure is coded in B06 only. The specific rings listed in this section include all reduced derivatives and tautomers, unless specifically excluded. Specific ring systems present in a disclosed and claimed compound are individually coded, but if there is an essential monoheterocyclic ring and either an optional or a variable monoheterocyclic ring, only the essential ring is coded and neither the variable ring nor B07-H.

B07-A	SOLE HETERO(S) OXYGEN	
B07-A01	Furan excluding tetrahydrofuran	
B07-A02	Tetrahydro-(furan or pyran) general	
B07-A02A	. Tetrahydrofuran	1994
	Previous code(s): B07-A02	
B07-A02B	. Tetrahydropyran	1994
	Previous code(s): B07-A02	
B07-A03	Others with one O Including pyran.	
B07-A04	With more than one O	
B07-B	SOLE HETERO(S) SULPHUR	
B07-B01	Thiophene	
B07-B02	Others with one S	
B07-B03	Others with more than one S	
B07-C	SOLE HETEROS O AND S	
B07-C	General	
B07-D	SOLE HETERO(S) NITROGEN	
B07-D01	With one N, 3 or 4 membered	
B07-D02	Pyrrole Excluding pyrrolidine.	
B07-D03	Pyrrolidine	
B07-D04	Pyridine general Excluding piperidine.	
B07-D04A	. (Hydro)pyridinium N(V)	1986
B07-D04B	. Pyridine (optionally substituted) production	1986
B07-D04C	. Pyridine (optionally substituted) use	1986
B07-D04D	. Di- and tetrahydropyridine (optionally substituted)	1986
B07-D05	Piperidine	

B07-D06	With one N, > 6-membered
B07-D07	With > one N, < 5-membered
B07-D08	Pyrazole
B07-D09	Imidazole
B07-D10	Pyr(id)azine Excluding piperazine.
B07-D11	Piperazine
B07-D12	Pyrimidine
B07-D13	Others with more than one N

B07-E	SOLE HETEROS O AND N
B07-E01	With one O and one N < 6-membered
B07-E02	Oxazines Excluding morpholine.
B07-E03	Morpholine
B07-E04	Others

B07-F	SOLE HETEROS S AND N
B07-F01	With one S and one N < 6-membered
B07-F02	Thiazines
B07-F03	Others

B07-G	SOLE HETEROS O AND S AND N
B07-G	General

B07-H	MONONUCLEAR HETEROCYCLICS GENERAL This code is used for general disclosure when either unspecified monoheterocyclic ring system is present in the molecule, or several rings are present. Therefore the generic code must be searched every time when a specific code is searched.
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B07-H	Heterocyclic ring general
B07-H01	Ring linked directly to -C(=O)-, -C(=S)-, -C(=N)- or -CN 1975
B07-H02	Ring linked directly to heteroatom 1975
B07-H03	Ring linked via aliphatic chain only to heteroatom, -C(=O)-, -C(=S)-, -C(=N)- or CN 1975
B07-H04	Other rings 1975



**B08 AROMATICS, POLYCARBOCYCLIC**

This section covers compounds containing more than two carbocyclic rings fused together, at least one of which is 6-membered with 3 conjugated double bonds (or quinone derivs. thereof). Mono- and bicyclo-aromatics are coded in B10.

<b>B08-A</b>	<b>At least 6 rings fused</b>
<b>B08-B</b>	<b>Five rings fused</b>
<b>B08-C</b>	<b>4 RINGS FUSED</b>
<b>B08-C01</b>	<b>6:6:6:6 carbon atoms per ring</b>
<b>B08-C02</b>	<b>Others</b>
<b>B08-D</b>	<b>3 RINGS FUSED</b>
<b>B08-D01</b>	<b>6:6:7 carbon atoms per ring</b>
<b>B08-D02</b>	<b>6:6:6 carbon atoms per ring</b>
<b>B08-D03</b>	<b>Others</b>
<b>B08-H</b>	<b>FUSED AROMATIC SYSTEM GENERAL</b>

2002

**B09 ALICYCLICS, POLYCARBOCYCLIC**

This section covers compounds containing more than two carbocyclic rings fused together, other than aromatics (see B08). Mono- and bicyclic compounds are coded in B10.

<b>B09-A</b>	<b>At least 6 rings fused</b>
<b>B09-B</b>	<b>Five rings fused</b>
<b>B09-C</b>	<b>4 RINGS FUSED</b>
<b>B09-C01</b>	<b>6:6:6:6 carbon atoms per ring</b>
<b>B09-C02</b>	<b>Others</b>
<b>B09-D</b>	<b>3 RINGS FUSED</b>
<b>B09-D01</b>	<b>6:6:6 carbon atoms per ring</b>
<b>B09-D02</b>	<b>Others</b>
<b>B09-H</b>	<b>FUSED ALICYCLIC SYSTEM GENERAL</b>

2002

**B10 AROMATICS AND CYCLOALIPHATICS (MONO AND BICYCLIC ONLY), ALIPHATICS**

In this section compounds are coded according to the type of functional group present. Only one code is assigned to a specific compound according to the rule of priorities: A >> B >> C, and 1 >> 2 >> 3 etc. Thus B10-A01 is the highest, and B10-J02 the lowest priority code. For acidic or basic salts see the parent compounds (i.e. amines, acids, etc.). For all cyclic derivatives of the groups listed in section B10 see B01 to B07. For groups not listed in section B10, e.g. semicarbazone, the highest priority segment is coded, in this case as B10-A13D.

<b>B10-A</b>	<b>RARER CHEMICAL GROUPS GENERAL</b> Oxygen atoms may be replaced by S, where applicable.
<b>B10-A01</b>	<b>Sulphonium, iodonium, free radicals, carbonium, oxonium, etc.</b>
<b>B10-A02</b>	<b>Halogen bonded to Hal, N or O</b> For halides of acids other than carboxylic (B10-A25) or those containing N-X or O-X (X = halogen) bond (B10-A02) the parent acid is coded. For example a sulphenyl halide is coded B10-A09C, a chloroformate B10-A11B and a carbamoyl halide B10-A12C.
<b>B10-A03</b>	<b>Nitrogen oxide, nitroso</b>
<b>B10-A04</b>	<b>Peroxide, polysulphide</b>
<b>B10-A05</b>	<b>Nitrate, nitrite</b>
<b>B10-A06</b>	<b>Quinone</b> Including all derivatives except those with higher priority.
<b>B10-A07</b>	<b>Sugar</b> Only 4 or more carbon monosaccharides with a free keto or aldehyde group together with their oxidised, reduced and substituted derivatives code here. Sugars in which at least one of the aldehyde / keto groups have been converted into an acetal / ketal (i.e. exist in cyclic form) code in B07-A02.
<b>B10-A07A</b>	<b>Unmodified sugars</b> Includes ethers and esters thereof. 7 or more carbons are coded B10-A07E.
<b>B10-A07B</b>	<b>Sugar alcohols</b> Includes ether and ester derivatives. Derivatives in which one or two of the hydroxy groups have been replaced by N additionally code B10-A07D. Derivatives in which one or two of the hydroxy groups have been replaced by atoms other than H or N (including 7 or more carbon sugar alcohols) additionally code B10-A07E. Inositol is coded B10-E04A.

2005

2005

B10-A07C	<ul style="list-style-type: none"> <li><b>Sugar acids</b> Includes ether and ester derivatives. Derivatives in which one or two of the hydroxy groups have been replaced by N additionally code B10-A07D. Derivatives in which one or two of the hydroxy groups have been replaced by atoms other than H or N (including 7 or more carbon sugar acids) additionally code B10-A07E. Uronic acids which contain a free aldehyde or keto group (even if represented as a cyclic hemi-acetal in the source material) code here but those in which the hemi-acetal OH has been converted into an ether or ester code in B07-A02. Lactones of sugar alcohols code in the B07-A section.</li> </ul>	2005
B10-A07D	<ul style="list-style-type: none"> <li><b>Sugar amines</b> Used for 4 or more carbon monosaccharides with a free aldehyde or keto group (even if represented as a cyclic hemi-acetal in the source material) or an oxidised or reduced derivative thereof in which one or two of the O atoms have been replaced by nitrogen. If the sugar contains 7 or more carbons it additionally codes B10-A07E. If the sugar is an oxidised sugar it additionally codes B10-A07C. If the sugar is a reduced sugar it additionally codes B10-A07B.</li> </ul>	2005
B10-A07E	<ul style="list-style-type: none"> <li><b>Other sugar derivatives</b> Used for 4 or more carbon monosaccharides with a free aldehyde or keto group (even if represented as a cyclic hemi-acetal in the source material) or an oxidised or reduced derivative thereof in which one or two of the O atoms have been replaced by atoms other than H, or N. Additionally all 7 or more carbon non-cyclic monosaccharides code here. If the sugar is an oxidised sugar it additionally codes B10-A07C. If the sugar is a reduced sugar it additionally codes B10-A07B.</li> </ul>	2005
B10-A08	<b>Amide of sulphur acid</b>	
B10-A09	<b>Sulphur acid</b>	1963-1965
B10-A09A	<ul style="list-style-type: none"> <li><b>(Thio)Sulphuric(ous) acid</b> Including all derivatives except those with higher priority.</li> </ul>	1965
B10-A09B	<ul style="list-style-type: none"> <li><b>Sulphonic acid general</b> Including all derivatives except for those with higher priority.</li> </ul>	1965
B10-A09C	<ul style="list-style-type: none"> <li><b>Other S acids</b> Including all derivatives except those with higher priority.</li> </ul>	1965
B10-A10	<b>Sulphone, sulfoxide</b>	
B10-A11	<b>Carbonate general</b>	1963-1965
B10-A11A	<ul style="list-style-type: none"> <li><b>Thiocarbonic acid</b> Including all derivatives except those with higher priority.</li> </ul>	1965
B10-A11B	<ul style="list-style-type: none"> <li><b>Carbonic acid</b> Includes haloformates.</li> </ul>	1965
B10-A12	<b>Carbamate general</b>	1963-1965
B10-A12A	<ul style="list-style-type: none"> <li><b>Dithiocarbamic acid</b> Including all derivatives except those with higher priority.</li> </ul>	1965
B10-A12B	<ul style="list-style-type: none"> <li><b>Monothiocarbamic acid</b> Including all derivatives except those with higher priority.</li> </ul>	1965
B10-A12C	<ul style="list-style-type: none"> <li><b>Carbamic acid</b> Including all derivatives except those with higher priorities.</li> </ul>	1965
B10-A13	<b>Urea, isourea general</b>	1963-1965
B10-A13A	<ul style="list-style-type: none"> <li><b>(Iso)thiourea</b></li> </ul>	1965
B10-A13B	<ul style="list-style-type: none"> <li><b>(Iso)urea general</b> Generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, the corresponding generic code must also be searched.</li> </ul>	1965
B10-A13C	<ul style="list-style-type: none"> <li><b>Unsubstituted urea</b></li> </ul>	1975
B10-A13D	<ul style="list-style-type: none"> <li><b>Other (iso)urea compounds</b></li> </ul>	1975
B10-A14	<b>(Iso)cyanate, thiocyanide</b>	
B10-A15	<b>(Iso)cyanide</b>	
B10-A16	<b>Azide, azo diazo(nium)</b>	
B10-A17	<b>Biguanide, guanidine, amidine</b>	
B10-A18	<b>Hydroxylamine</b> Hydroxylamine itself is coded B05-C03.	
B10-A19	<b>Hydrazine</b> Hydrazine itself is coded B05-C03.	
B10-A20	<b>Imine</b>	

B10-A21	<b>Quaternary ammonium (bis or poly)</b> When a patent claims amines and their quaternary ammonium salts, only the amines are coded. Two searches must be made in order to obtain all relevant quaternary ammonium compounds.	B10-B03	<b>Amino-phenol,-alcohol or ether general</b> Oxygen atoms may be replaced by S, where applicable.	1986
B10-A22	<b>Quaternary ammonium (mono)</b>	B10-B03A	. <b>Amino-phenol, -alcohol or -ether (amine aromatic)</b>	1971
B10-A23	<b>Acetal, ketal</b>	B10-B03B	. <b>Amino-phenol, -alcohol or -ether (amine not aromatic)</b>	1971
B10-A24	<b>Imide</b>	B10-B04	<b>Amine mono, general</b>	1986
B10-A25	<b>Acid anhydride, halide (carboxylic only)</b> For halides of acids other than carboxylic (B10-A25) or those containing N-X or O-X (X = halogen) bond (B10-A02) the parent acid is coded. For example a sulphenyl halide is coded B10-A09C, a chloroformate B10-A11B and a carbamoyl halide B10-A12C.	B10-B04A	. <b>Other aromatic amines</b>	1971
		B10-B04B	. <b>Other non-aromatic amines</b>	1971
B10-B	<b>AMINES</b>	B10-C	<b>CARBOXYLIC ACIDS</b>	
B10-B01	<b>Polyamine general</b>	B10-C01	<b>Thiocarboxylic acid</b>	
	1986	B10-C02	<b>Polycarboxylic acid</b>	
B10-B01A	. <b>Polyamines, at least 1 amine aromatic</b>	B10-C03	<b>Carboxylic acid and phenol present</b> Or phenolic ester or ether. Oxygen atoms may be replaced by S.	
	1965	B10-C04	<b>Other carboxylic acids general</b>	
B10-B01B	. <b>Polyamines with no amine aromatic</b>	B10-C04A	. <b>Carboxylic acid and cycloaliphatic system present</b>	1975
	1965	B10-C04B	. <b>Hydroxy, aldehyde or keto carboxylic acid and carbocyclic aromatic ring system present</b> Including esters and ethers (of hydroxy) and thio derivatives.	1975
B10-B02	<b>Amino-acid, -ester or -amide general</b>			
	1986	B10-C04C	. <b>Other carboxylic acid and carbocyclic aromatic ring system present</b>	1975
B10-B02A	. <b>Amino-acid, -ester or -amide (amine aromatic)</b>			
	1965	B10-C04D	. <b>Acyclic hydroxy</b> Including acyclic ether (of hydroxy) and thio derivatives.	1975
B10-B02B	. <b>Amino-acid, -ester or amide (amine not aromatic) general</b>			
	1965	B10-C04E	. <b>General acyclic monocarboxylic acid</b> General acyclic monocarboxylic acid (not substituted by hydroxy, aldehyde, keto or their ethers and/or thio derivatives).	1975
B10-B02C	. <b>Mixtures containing at least 3 naturally occurring amino acids</b>			
	1975	B10-C04E1	.. <b>Substituted acyclic monocarboxylic acid</b>	2006
B10-B02D	. <b>Sulphur-containing amino acids</b> Including amides and esters of the acid group(s).			
	1975	B10-C04E2	.. <b>Polyunsaturated fatty acid</b>	2006
B10-B02E	. <b>Ring-containing amino acid with free acid group or salt</b>			
	1975	B10-C04E3	.. <b>Monounsaturated fatty acid</b>	2006
B10-B02F	. <b>Ring-containing amino amide</b>			
	1975	B10-C04E4	.. <b>Other unsaturated monocarboxylic acid</b>	2006
B10-B02G	. <b>Ring-containing amino ester</b>			
	1975			
B10-B02H	. <b>Optionally esterified or etherified hydroxy amino acids</b> Including amides and esters of the acid group(s).			
	1975			
B10-B02J	. <b>Other amino acids</b> Including amides and esters of the acid group(s).			
	1975			

B10-C04E5 .. Saturated fatty acid 2006

B10-C04E6 .. Other saturated monocarboxylic acid 2006

**B10-D ALDEHYDES AND CARBOXYLIC AMIDES**  
Oxygen atoms may be replaced by S, where applicable. These generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, corresponding generic codes must also be searched.

B10-D01 Aldehydes

B10-D02 Carboxylic amide, thio

B10-D03 Carboxylic amides

**B10-E HYDROXY COMPOUNDS**  
Oxygen atoms may be replaced by S, where applicable.

B10-E01 Thiophenols

B10-E02 Phenols

B10-E03 Thioalcohols

**B10-E04 Alcohols general**  
Generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, the corresponding generic codes must also be searched.

B10-E04A . Alcohols containing hydroxy attached directly to alicyclic ring  
Including inositol. 1975

B10-E04B . Alcohols containing carbocyclic ring(s) 1975

B10-E04C . Polyalcohols and ethers and esters thereof 1975

B10-E04D . Other alcohols 1975

**B10-F KETONES**

B10-F01 Thioketones

B10-F02 Ketones

**B10-G CARBOXYLIC ESTERS AND NITRO**  
Oxygen atoms may be replaced by S, where applicable.

B10-G01 Thiocarboxylic esters

B10-G02 Carboxylic esters

B10-G03 Nitro

**B10-H ETHERS AND HALOGENS**  
Oxygen atoms may be replaced by S, where applicable.

B10-H01 Ethers

B10-H02 Halogen general 1986

B10-H02A . F linked to aromatic ring 1965

B10-H02B . F not linked to aromatic ring 1965

B10-H02C . Br or I linked to aromatic ring 1965

B10-H02D . Br or I not linked to aromatic ring 1965

B10-H02E . Cl linked to aromatic ring 1965

B10-H02F . Cl not linked to aromatic ring 1965

**B10-J HYDROCARBONS**

B10-J01 -C≡C- may form part of alicyclic ring 1965

B10-J02 Others 1965

## B11 PROCESSES, APPARATUS

B11 codes are only used when the inventive feature of the patent cannot be completely described in terms of chemical descriptors in B01 to B10. Test methods must be claimed for B11 codes to be applied, i.e. if a compound can be used as a reagent but the test is not claimed, only B12-K04+ codes are applied.

<b>B11-A</b>	<b>FERMENTATION GENERAL</b>	
<b>B11-A01</b>	Using microorganisms	1994
<b>B11-A01A</b>	. Using bacteria	2006
	<i>Previous code(s): B11-A01</i>	
<b>B11-A01B</b>	. Using viruses	2006
	<i>Previous code(s): B11-A01</i>	
<b>B11-A01C</b>	. Using fungi	2006
	<i>Previous code(s): B11-A01</i>	
<b>B11-A02</b>	Using enzymes	1994
<b>B11-A02A</b>	. Using oxidoreductases general	2006
<b>B11-A02A1</b>	.. Using oxidases	2006
<b>B11-A02A2</b>	.. Using peroxidases	2006
<b>B11-A02A3</b>	.. Using oxygenases	2006
<b>B11-A02A4</b>	.. Using dehydrogenases, reductases	2006
<b>B11-A02A5</b>	.. Using lipoxygenases	2006
<b>B11-A02B</b>	. Using transferases general	2006
<b>B11-A02B1</b>	.. Using DNA/RNA polymerases	2006
<b>B11-A02B2</b>	.. Using reverse transcriptases	2006
<b>B11-A02B3</b>	.. Using kinases	2006
<b>B11-A02C</b>	. Using hydrolases general	2006
<b>B11-A02C1</b>	.. Using esterases	2006
<b>B11-A02C2</b>	.. Using glycosidases	2006
<b>B11-A02C3</b>	.. Using proteases/peptide hydrolases	2006
<b>B11-A02D</b>	. Using lyases	2006
<b>B11-A02E</b>	. Using isomerases	2006

<b>B11-A02F</b>	. Using ligases	2006
<b>B11-A03</b>	Using algae	2010
<b>B11-B</b>	<b>EXTRACTION, SEPARATION, RECOVERY, PURIFICATION, CRYSTALLISATION</b> If part of a diagnostic process see B11-C08D.	
<b>B11-B01</b>	Separation of stereoisomers by a biological method	2006
<b>B11-B02</b>	Separation of stereoisomers by other method	2006
<b>B11-B03</b>	Other separations	2006
<b>B11-B04</b>	Removal processes	2006
<b>B11-B05</b>	Method for preservation and/or storage	2009
<b>B11-B06</b>	Method for cleaning and/or sterilization	2010
<b>B11-C</b>	<b>GENERAL PROCESS, APPARATUS</b>	
<b>B11-C01</b>	General chemical processes	1971
<b>B11-C01A1</b>	.. Library synthesis Used when the patent is describing a technique for producing, rather than using a combinatorial library.	2005
<b>B11-C01A2</b>	.. Liquid-phase synthesis Process in which the chemical building blocks are present in solution.	2005
<b>B11-C01A3</b>	.. Solid-phase synthesis Process in which the chemical building blocks are bound to a polymer.	2005
<b>B11-C01A4</b>	.. Parallel synthesis Process in which each separate starting material is present in a different well of a microarray and the reagent is added simultaneously to all wells so each product is present in a different well.	2005
<b>B11-C01A5</b>	.. High-volume synthesis Process in which very large numbers of compounds are produced from a large variety of starting materials.	2005
<b>B11-C01B</b>	. Apparatus for combinatorial chemistry	2002
<b>B11-C01C</b>	. Other processes	2002
<b>B11-C01C1</b>	.. Stereo-specific reactions	2006
<b>B11-C01C2</b>	.. Stereo-selective reactions	2006

B11-C01D	. <b>Stereochemistry</b> Includes geometrical isomers.	2006	B11-C04F	. <b>Artificial organs</b> Including heart-lung machines, kidney dialysis equipment, pacemakers and artificial livers and skin. Includes production of these organs. Not to be confused with Prosthesis (coded B12-M17) or Implants (coded B11-C04A).	2005
B11-C01E	. <b>Amplification processes for production</b> <i>Previous code(s): B11-A02B1</i>	2007			
B11-C02	<b>Syringes</b>	1971	B11-C04G	. <b>Tissue engineering technologies</b> Includes wound care technologies (e.g. bone cement), stem cell therapeutic applications, and tissue and organ production (e.g. by inkjet printers and tissue scaffolds)	2007
B11-C02A	. <b>Hypodermic syringes</b> Includes multi-use as well as single-use and moulded disposable syringes.	2005			
B11-C02B	. <b>Needles</b> Should cover all needles, not just those for syringes. Not for microneedles – these are coded under 12-M02F instead.	2005	B11-C04H	. <b>Adaptors, fixing devices, seals</b> used for e.g., attaching tubes to syringes, attaching catheter tubes to supports	2009
B11-C02C	. <b>Syringe components</b>	2006	B11-C04J	. <b>Cements, putties</b> Includes bone cement etc	2010
B11-C02D	. <b>Syringe disposal apparatus</b>	2006			
B11-C03	<b>Dispensers</b>	1971	B11-C05	<b>Machine/apparatus for producing pharmaceutical, veterinary or agricultural composition</b> e.g. tableting machines.	1971
B11-C04	<b>Machine/device/method for use in/on animal body, general</b> Includes both method & devices used for therapeutic purposes on animal or human body. This code can be applied to condoms, external splints, infra-red heat massagers etc, however such items should either contain, be coated with or be used in conjunction with drugs in order for them to be coded in B and/or C.	1971, 2010	B11-C06	<b>Containers, packing, preserving apparatus, storage tanks, transporting apparatus general</b>	1975
B11-C04A	. <b>Implant</b>	1977	B11-C06A	. <b>Closures, caps</b> Including safety caps.	1977
B11-C04A1	.. <b>Stent</b>	2006	B11-C06B	. <b>Formulation counting devices</b> e.g. tablet counting machines.	2009
B11-C04B	. <b>Catheter</b> Includes cannula.	1977	B11-C06C	. <b>Peripheral devices for therapeutic regimens</b> Includes stands for e.g. infusion devices, tamper alarms.	2010
B11-C04C	. <b>Injection gun, general</b>	2005	B11-C07	<b>Antibody-antigen reaction, precipitation tests; colorimetric, fluorescence, radioactive tracer tests, general</b> B11-C07+ and B11-C08+ codes are applied when diagnosis/testing process forms a novel part of an invention.	1975
B11-C04D	. <b>Applicator</b>	2005			
B11-C04E	. <b>Needle-free injector</b> A syringe type device that uses applied pressure to inject the drug through the skin, and particularly into the gums during dental procedures.	2005	B11-C07A	. <b>Antigen - antibody reaction general</b> Excluding B11-A.	1977
			B11-C07A1	.. <b>Production of antigen for test</b>	1986
			B11-C07A2	.. <b>Antigen or antibody bound to colour tracer</b>	1986
			B11-C07A3	.. <b>Antigen or antibody bound to radioactive tracer</b>	1986

B11-C07A4	.. Antigen or antibody bound to enzyme tracer	1986	B11-C08D1	.. Electrophoresis	1986
B11-C07A5	.. Antigen or antibody bound to fluorescent or chemiluminescent tracer	1986	B11-C08D2	.. Chromatography, ion exchange Including High Performance Liquid Chromatography (HPLC)	1986
B11-C07A6	.. Antigen or antibody bound to other type of carrier e.g. erythrocytes, glass, polymer.	1986	B11-C08D3	.. Filtration, centrifugation, sedimentation, dialysis	1986
B11-C07A7	.. Apparatus for antigen antibody reaction, where the antigen or antibody type or carrier are irrelevant to the invention	1986	B11-C08E	. Biological procedures for testing general Other than B11-A and B11-C07A.	1986
B11-C07B	. Colorimetric tests Including fluorescence (excluding B11-C07A).	1977	B11-C08E1	.. Fermentation of micro-organisms, cell or tissue culture e.g. testing antibiotics by cultivation of microorganisms.	1986
B11-C07B1	.. Colorimetric (detection of colour change in a reagent)	1986	B11-C08E2	.. Noting physiological responses in animals or plants/modelling diseases e.g. increased activity, change of habit. This code is applied only when the test is the main inventive feature.	1986
B11-C07B2	.. Spectrophotometric	1986	B11-C08E3	.. Enzyme processes other than polarography or enzyme labelling Excluding B11-C07A, but including the use of restriction enzymes (endonucleases) and the polymerase chain reaction (PCR).	1986
B11-C07B3	.. Fluorescence	1986	B11-C08E4	.. DNA sequencing methods Other than those involving enzymes. <i>Previous code(s): B11-C08, B11-C08E3</i>	1994
B11-C07B4	.. Chemiluminescence	1986	B11-C08E5	.. DNA hybridisation test methods, use of DNA probes <i>Previous code(s): B11-C08, B11-C08E3</i>	1994
B11-C07B5	.. Radioactive tracer other than B11-C07A3	1986	B11-C08E6	.. Microarrays and biochips	2002
B11-C07B6	.. Reflectance, light scattering etc.	2005	B11-C08E7	.. Agonist/antagonist identification	2005
B11-C07B7	.. Apparatus for colorimetric analysis where the apparatus is the novelty of the invention	2009	B11-C08F	.. Protein/Gene analysis general	2002
B11-C08	Other methods/apparatus for testing/detection Including new drug screening systems.	1975	B11-C08F1	.. Computational genomics	2002
B11-C08A	. NMR, mass spectroscopy Excluding NMR, mass spectroscopy for gene/protein analysis which is coded under B11-C08G2.	1986	B11-C08F2	.. Experimental genomics	2002
B11-C08B	. Potentiometry, polarography	1986	B11-C08F3	.. Computational proteomics	2002
B11-C08C	. Sampling device and sampling method for testing	1986	B11-C08F4	.. Experimental proteomics	2002
B11-C08C1	.. Microfluidic devices	2007	B11-C08F5	.. Functional genomics	2009
B11-C08D	. Separation methods of testing and diagnosis general Other than B11-B.	1986	B11-C08F6	.. Functional proteomics	2009

B11-C08G	. Structural gene/protein analysis general	2002	B11-C11A	. Patient compliance methods & systems	2005
B11-C08G1	.. X-ray crystallography	2002		Methods concerning patient compliance, e.g. medication reminders.	
B11-C08G2	.. NMR spectroscopy	2002	B11-C12	<b>Nanotechnology (general)</b>	2005
B11-C08G3	.. Electron microscopy	2002		Covers nanoswitches made of DNA.	
B11-C08H	. Drug design by computer modelling	2002	B11-C13	<b>Particle engineering</b>	2005
B11-C08J	. Microscopy/ optical processes & apparatus	2005		Any process concerned with the design of the physical form of the particles in the dosage (as opposed to the chemical constitution of them). This optimises drug delivery properties of the dosage form.	
B11-C08K	. Other analytical apparatus where the apparatus is the novelty of the invention	2009			
	Novel apparatus for colorimetric analysis codes as B11-C07B7				
B11-C09	Other processes, appts.	1975			
	Processes and apparatus not covered elsewhere in section 11.				
B11-C09A	. Processes	2006			
B11-C09B	. Apparatus	2006			
B11-C10	Screening general	2002			
B11-C10A	. High throughput screening	2002			
B11-C10B	. High content screening	2005			
	Whole cell analysis used in drug screening. Differs from high- throughput screens that are usually homogenous in-vitro assays. Includes the analysis of multiple independent or interacting targets in intact cells using e.g. advanced optical imaging systems, fluorescent-based reagents and advanced informatics tools. Also includes predictive toxicity and ADME (absorption, distribution, metabolism and excretion) screening.				
B11-C10C	. Protein/gene libraries	2005			
	Collections of protein or nucleic acid fragments and clones used as a tool in biochemical processes.				
B11-C10D	. Phage display libraries	2005			
B11-C11	General computing methods & apparatus	2005			
	Including media and methods for storing, searching & retrieving data and drug databases.				



## B12 DIAGNOSTICS AND FORMULATION TYPES (Therapeutic, Pesticidal, Herbicidal) (pre-1994)

<b>B12-A</b>	<b>ANTIMICROBIAL TYPE</b>	
<b>B12-A01</b>	<b>Antibacterial</b> Antibiotics are only B02. Immunostimulant with B12-A06 (pre-1994). <i>Now coded as: B14-A01+</i>	1963-1993
<b>B12-A02</b>	<b>Antifungal, antialgal, antilichen general</b> <i>Now coded as: B14-A04+, B14-B08</i>	1963-1993
<b>B12-A02A</b>	. <b>Antialgal</b>	1986-1993
<b>B12-A02B</b>	. <b>Antilichen</b> <i>Now coded as: B14-B08</i>	1986-1993
<b>B12-A02C</b>	. <b>Antifungal</b> <i>Now coded as: B14-A04+</i>	1986-1993
<b>B12-A03</b>	<b>Antileprotic</b> <i>Now coded as: B14-A01B1</i>	1963-1993
<b>B12-A04</b>	<b>Antitubercular</b> <i>Now coded as: B14-A01B1A</i>	1963-1993
<b>B12-A05</b>	<b>Antivenereal</b> <i>Now coded as: B14-N07C, B14-A01A, B14-A01A5</i>	1963-1993
<b>B12-A06</b>	<b>Antiviral</b> Vaccines are only B02-V. Immunostimulant with B12-A01 (pre-1994). <i>Now coded as: B14-A02+</i>	1963-1993
<b>B12-A07</b>	<b>Skin and wound treatment</b> <i>Now coded as: B14-N17+</i>	1963-1993
<b>B12-A08</b>	<b>Antifouling</b> (prior to 198601 search B12-A02, B12-N01, B12-N04 and B12-N05)	1986-1993
<b>B12-B</b>	<b>ANTIPARASITIC TYPE</b>	
<b>B12-B01</b>	<b>Amoebicide</b> <i>Now coded as: B14-A03A</i>	1963-1993
<b>B12-B02</b>	<b>Anthelmintic</b> <i>Now coded as: B14-B03</i>	1963-1993
<b>B12-B03</b>	<b>Antimalarial</b> <i>Now coded as: B14-A03B</i>	1963-1993
<b>B12-B04</b>	<b>Antiparasitic (general) acaricide</b> <i>Now coded as: B14-B02</i>	1963-1993

<b>B12-B05</b>	<b>Coccidiostat</b> <i>Now coded as: B14-A03C</i>	1963-1993
<b>B12-B06</b>	<b>Schistosomicide</b> <i>Now coded as: B14-B03A</i>	1963-1993
<b>B12-B07</b>	<b>Trypanocide</b> <i>Now coded as: B14-A03E</i>	1963-1993
<b>B12-C</b>	<b>CNS-ACTIVE TYPE (I)</b>	
<b>B12-C01</b>	<b>Anaesthetic (general)</b> <i>Now coded as: B14-C07</i>	1963-1993
<b>B12-C02</b>	<b>Anaesthetic (Local)</b> <i>Now coded as: B14-C08</i>	1963-1993
<b>B12-C03</b>	<b>Analeptic</b> <i>Now coded as: B14-J01A2</i>	1963-1993
<b>B12-C04</b>	<b>Antiparkinsonian drug</b> <i>Now coded as: B14-J01A3</i>	1963-1993
<b>B12-C05</b>	<b>Central depressant</b> <i>Now coded as: B14-J01B</i>	1963-1993
<b>B12-C06</b>	<b>Central stimulant</b> <i>Now coded as: B14-J01A, B14-J01A1</i>	1963-1993
<b>B12-C07</b>	<b>Hypnotic</b> <i>Now coded as: B14-J01B1</i>	1963-1993
<b>B12-C08</b>	<b>Sedative</b> <i>Now coded as: B14-J01B2</i>	1963-1993
<b>B12-C09</b>	<b>Synergist</b> <i>Now coded as: B14-S09</i>	1963-1993
<b>B12-C10</b>	<b>Tranquilliser</b> <i>Now coded as: B14-J01B4, B14-J01A4, B14-F02D1, B14-J01, B14-J01B3, B14-N16, B14-S07</i>	1963-1993
<b>B12-D</b>	<b>CNS-ACTIVE TYPE (II)</b>	
<b>B12-D01</b>	<b>Analgesic</b> <i>Now coded as: B14-C01</i>	1963-1993
<b>B12-D02</b>	<b>Antiallergic general</b> <i>Now coded as: B14-G02A</i>	1963-1993
<b>B12-D02A</b>	. <b>Autoimmune disease treatment</b> See also B12-D03, B12-D07, B12-D09. <i>Now coded as: B14-G02D</i>	1986-1993

B12-D02B	. <b>Immune suppressant.</b> Immunomodulatory is also coded as B12-A01 and B12-A06 1986-1993 <i>Now coded as: B14-G02, B14-G03, B14-G02C</i>
B12-D02C	. <b>Complement inhibitor</b> 1986-1993 <i>Now coded as B14-G02D</i>
B12-D02D	. <b>Anti slow-releasing-substance of anaphylaxis (SRS-A)</b> 1986-1993 <i>Now coded as: B14-G02B</i>
B12-D03	<b>Antiarthritic</b> 1963-1993 <i>Now coded as: B14-C09+</i>
B12-D04	<b>Anticonvulsant</b> 1963-1993 <i>Now coded as: B14-J07</i>
B12-D05	<b>Antiemetic</b> 1963-1993 <i>Now coded as: B14-E05</i>
B12-D06	<b>Antihistamine general</b> For gastric secretion inhibitor see also B12-J02. 1963-1993 <i>Now coded as: B14-L09</i>
B12-D06A	. <b>H2-secretion inhibitor</b> 1986-1993 <i>Now coded as: B14-L11</i>
B12-D06B	. <b>H1 inhibitor</b> 1986-1993 <i>Now coded as: B14-L10</i>
B12-D07	<b>Antiinflammatory</b> 1963-1993 <i>Now coded as: B14-C02, B14-C03</i>
B12-D08	<b>Antipyretic</b> 1963-1993 <i>Now coded as: B14-C04, B14-C05</i>
B12-D09	<b>Antirheumatic</b> 1963-1993 <i>Now coded as: B14-C06</i>
B12-D10	<b>Convulsant</b> 1963-1993 <i>Now coded as: B14-J06</i>
<b>B12-E</b>	<b>AUTONOMIC N.S. ACTIVE TYPE</b>
B12-E01	<b>Autonomic N.S. active general</b> 1963-1993 <i>Now coded as: B14-F02, B14-J02</i>
B12-E02	<b>Muscle-relaxant, inotropic</b> See also B12-F01. 1963-1993 <i>Now coded as: B14-J05, B14-J05A, B14-J05C, B14-J05D</i>
B12-E03	<b>Mydriatic/myopic</b> 1963-1993 <i>Now coded as: B14-J05B</i>

B12-E04	<b>Parasympathetic blocker</b> 1963-1993 <i>Now coded as: B14-J02B+, B14-J05D</i>
B12-E05	<b>Parasympathetic stimulant, acetyl choline potentiator</b> 1963-1993 <i>Now coded as: B14-J02A+</i>
B12-E06	<b>Sympathetic blocker general</b> 1963-1993 <i>Now coded as: B14-J02D, B14-J02D3</i>
B12-E06A	. <b>Alpha-adrenergic blocker</b> 1986-1993 <i>Now coded as: B14-J02D1</i>
B12-E06B	. <b>Beta-adrenergic blocker</b> 1986-1993 <i>Now coded as: B14-J02D2</i>
B12-E07	<b>Sympathetic stimulant adrenergic stimulant adrenaline potentiator</b> 1963-1993 <i>Now coded as: B14-J02C+</i>
B12-E08	<b>Ulcers (peptic and duodenal)</b> 1963-1993 <i>Now coded as: B14-E08</i>
B12-E09	<b>Uterus-active</b> 1963-1993 <i>Now coded as: B14-N14</i>
<b>B12-F</b>	<b>CARDIOACTIVE TYPE</b> <i>Previous code(s): B14-F</i>
B12-F01	<b>Cardioactive general</b> 1963-1993 <i>Now coded as: B14-F01</i>
B12-F01A	. <b>Arrhythmia treatment</b> 1986-1993 <i>Now coded as: B14-F01A</i>
B12-F01B	. <b>Cardiac stimulant</b> Including treatment of myocardial infarct, myocardial contraction intensifying, cardiac arrest treatment, cardiotonic, cardiac insufficiency treatment. 1986-1993 <i>Now coded as: B14-F01B</i>
B12-F01C	. <b>Cardiovascular. Inotropic</b> Before 198602 inotropic was coded B12-E02. 1986-1993 <i>Now coded as: B14-F01C</i>
B12-F02	<b>Coronary dilator</b> 1963-1993 <i>Now coded as: B14-F01D, B14-F01E</i>
B12-F03	<b>Ganglion-blocker</b> 1963-1993 <i>Now coded as: B14-F01F</i>
B12-F04	<b>Hypertensive</b> 1963-1993 <i>Now coded as: B14-F02A</i>

B12-F05	<b>Hypotensive general</b> <i>Now coded as: B14-F02B</i>	1963-1993	B12-G04	<b>Hormone adrenocortical</b> Including Addison's disease treatment (general).	1963-1993 <i>Now coded as: B14-D01, B14-D01D, B14-D01E, B14-J03</i>
B12-F05A	. <b>Angiotensin converting enzyme inhibitor, renin inhibitor</b> <i>Now coded as: B14-F02B1</i>	1986-1993	B12-G04A	. <b>Anti-aging, anti-senility, anti-Alzheimer's disease</b> Including non-hormonal treatment.	1986-1993 <i>Now coded as: B14-J01A4</i>
B12-F05B	. <b>Calcium entry blockers</b> B12-G01 may also be searched. <i>Now coded as: B14-F02B2</i>	1986-1993	B12-G04B	. <b>Androgenic</b>	1986-1993 <i>Now coded as: B14-D01A</i>
B12-F06	<b>Vasoconstrictor</b> <i>Now coded as: B14-F02C</i>	1963-1993	B12-G04C	. <b>Oestrogenic</b>	1986-1993 <i>Now coded as: B14-D01B</i>
B12-F07	<b>Vasodilator</b> <i>Now coded as: B14-F02D+</i>	1963-1993	B12-G04D	. <b>Progestational</b> <i>Now coded as: B14-D01C</i>	1986-1993
B12-G	<b>METABOLISM ACTIVE TYPE</b>		B12-G05	<b>Leukaemia treatment</b> <i>Now coded as: B14-H01A</i>	1963-1993
B12-G01	<b>Antimetabolite general</b> <i>Now coded as: B14-J04, B14-L06, B14-L07, B14-L08</i>	1963-1993	B12-G06	<b>Thyroid agent</b> <i>Now coded as: B14-N11</i>	1963-1993
B12-G01A	. <b>Antihormone, antiandrogenic, antioestrogenic, antiprogestational, adrenal cortex inhibitor</b> <i>Now coded as: B14-D02+</i>	1986-1993	B12-G07	<b>Tumour-inhibitor</b> <i>Now coded as: B14-H01, B14-H01B</i>	1963-1993
B12-G01B	. <b>Enzyme inhibitor</b> <i>Now coded as: B14-D03, B14-D04</i>	1986-1993	B12-H	<b>BLOOD ACTIVE TYPE</b>	
B12-G01B1	.. <b>Antioxidoreductase</b> <i>Now coded as: B14-D05+</i>	1986-1993	B12-H01	<b>Antianaemic</b> <i>Now coded as: B14-F03</i>	1963-1993
B12-G01B2	.. <b>Antitransferase</b> <i>Now coded as: B14-D06+</i>	1986-1993	B12-H02	<b>Anticoagulant</b> <i>Now coded as: B14-F04</i>	1963-1993
B12-G01B3	.. <b>Antihydrolase</b> <i>Now coded as: B14-D07+</i>	1986-1993	B12-H03	<b>Antilipaemic</b> <i>Now coded as: B14-F06, B14-F07</i>	1963-1993
B12-G01B4	.. <b>Antilyase</b> <i>Now coded as: B14-D08</i>	1986-1993	B12-H04	<b>Coagulant</b> <i>Now coded as: B14-F08</i>	1963-1993
B12-G01B5	.. <b>Antiisomerase</b> <i>Now coded as: B14-D09</i>	1986-1993	B12-H05	<b>Hypoglycaemic</b> <i>Now coded as: B14-F09, B14-F10</i>	1963-1993
B12-G01B6	.. <b>Antiligase (antisyntetase)</b> <i>Now coded as: B14-D10</i>	1986-1993	B12-H06	<b>Plasma and blood substitutes</b> <i>Now coded as: B14-F11</i>	1963-1993
B12-G02	<b>Choleretic and liver</b> <i>Now coded as: B14-N12</i>	1963-1993	B12-J	<b>GASTROINTESTINAL ACTIVE TYPE</b>	
B12-G03	<b>Diuretic and kidney</b> For urinary tract infections see B12-A01. <i>Now coded as: B14-F02E, B14-N10</i>	1963-1993	B12-J01	<b>Anabolic agent, nutritional, achlorhydria treatment (humans)</b> <i>Now coded as: B14-E10+, B14-E11</i>	1963-1993
			B12-J02	<b>Anorectic, antisecretory</b> <i>Now coded as: B14-E07, B14-E12</i>	1963-1993

B12-J03	<b>Antacid</b> <i>Now coded as: B14-E01, B14-E03</i>	1963-1993	B12-K04A	. <b>Diagnosis of diseases or conditions in animals general</b> Including detection of glucose in blood and ethanol in breath.	1986
B12-J04	<b>Antidiarrhoeal, antihaemorrhoidal</b> <i>Now coded as: B14-E02, B14-E04</i>	1963-1993	B12-K04A1	.. <b>Diagnosis of tumours, cancer</b>	1986
B12-J05	<b>Antidote general</b> <i>Now coded as: B14-M01, B14-M01C</i>	1963-1993	B12-K04A2	.. <b>Diagnosis of heart and circulatory disorders</b>	1986
B12-J05A	. <b>Alcoholism treatment</b> <i>Now coded as: B14-M01A</i>	1986-1993	B12-K04A3	.. <b>Diagnosis of genetic disorders</b>	1986
B12-J05B	. <b>Antismoking</b> <i>Now coded as: B14-M01B</i>	1986-1993	B12-K04A4	.. <b>Diagnosis of microbial infections</b>	1986
B12-J05C	. <b>Anti-heavy metal poisoning</b> <i>Now coded as: B14-M01D</i>	1986-1993	B12-K04A4A	... <b>Detection of Viral diseases</b>	2005
B12-J05D	. <b>Pesticide or herbicide antidote</b> <i>Now coded as: B14-M01</i>	1986-1993	B12-K04A4B	... <b>Detection of Bacterial diseases</b>	2005
B12-J05E	. <b>Protecting plants from poisons</b> <i>Now coded as: B14-M01F</i>	1986-1993	B12-K04A5	.. <b>Diagnosis of CNS disorders</b>	1986
B12-J06	<b>Emetic</b> <i>Now coded as: B14-E06</i>	1963-1993	B12-K04A6	.. <b>Diagnosis of pregnancy, testing or measuring sex hormone levels and oestrus cycle</b>	1986
B12-J07	<b>Laxative</b> <i>Now coded as: B14-E09</i>	1963-1993	B12-K04A7	.. <b>Detection of parasites</b> Including protozoa and helminths.	2006
B12-J08	<b>Bone disorder treatment, osteoporosis</b> Excluding arthritis treatment (B12-D03) and bone marrow cell disorders (B12-G05). For osteoporosis prior to 198601 search B12-J01. <i>Now coded as: B14-N01</i>	1986-1993	B12-K04A8	.. <b>Diagnosis of immunological disorders</b>	2007
B12-K	<b>DIAGNOSTICS RESPIRATORY ACTIVE TYPE (PRE-1994)</b>		B12-K04B	. <b>In vivo radiopharmaceutical diagnostics</b>	1986
B12-K01	<b>Antitussive</b> <i>Now coded as: B14-K01B</i>	1963-1993	B12-K04C	. <b>Imaging body parts other than by X-ray contrast agents or radio-pharmaceuticals</b>	1986
B12-K02	<b>Bronchodilator</b> <i>Now coded as: B14-K01D</i>	1963-1993	B12-K04C1	.. <b>Ultrasonics</b> <i>Previous code(s): B12-K04C</i>	1994
B12-K03	<b>Contraceptive</b> <i>Now coded as: B14-P01+</i>	1963-1993	B12-K04C2	.. <b>NMR</b> <i>Previous code(s): B12-K04C</i>	1994
B12-K04	<b>Diagnosis and testing general</b> This section is used for coding substances which are stated to be detecting agents. e.g. a new antibody used for detecting cancer is coded under B04-G and B12-K04A1 only. When the procedure for detecting is described as novel, then the corresponding B11-C07 and B11-C08 codes are also applied.		B12-K04C3	.. <b>Positron emission tomography</b>	2007
			B12-K04D	. <b>Testing for plant disorders or diseases</b>	1986
			B12-K04E	. <b>Testing for substances other than for diseases</b> Not in body fluids.	1986
			B12-K04E1	.. <b>Drug discovery process</b>	2005
			B12-K04E2	.. <b>Environmental testing</b> Includes testing for contaminants in rivers.	2005

B12-K04E3	.. Other drug testing	2007	B12-M01B1	.. Dry powder inhaler	2005
B12-K04F	. Tests involving DNA, hybridisation probes etc.	1994		A dry powder inhaler (DPI) is similar to a metered dose inhaler, but is breath-activated, so the patient does not have to co-ordinate activation of the inhaler with inhalation of medicament.	
	Previous code(s): B12-K04,B12-K04A				
B12-K05	Expectorant	1963-1993	B12-M01B2	.. Multidose inhaler	2005
	Now coded as: B14-K01E			A different type of inhaler that is also breath-activated. Used to deliver many smaller doses to make up the full required dosage.	
B12-K06	Respiratory active	1963-1993			
	Now coded as: B14-K01,B14-K01C				
B12-K07	Contrast medium		B12-M01B3	.. Nebuliser	2005
	Include=s X-ray contrast medium and MRI contrast medium.			A device which is used to administer a solution of drug in the form of a fine mist for you to inhale. Air is forced through the drug solution in the drug chamber, changing the liquid into a fine mist which is breathed in through a mask or mouthpiece.	
B12-L	COSMETIC PREPARATION TYPE				
B12-L01	Antiperspirant	1963-1993	B12-M01C	. Smoke	1986
	Now coded as: B14-R03				
B12-L02	Cosmetic	1963-1993	B12-M01D	. Intranasal	2002-2006
	Now coded as: B14-R01			Now coded as: B12-M12Q	
B12-L03	Dental agent	1963-1993	B12-M01E	. Other gaseous forms	2005
	Now coded as: B14-N06				
B12-L04	Ear, nose, eye, mouth and throat preparation	1963-1993	B12-M02	Cream, gel, ointment, plaster	
	Now coded as: B14-N02, B14-N03, B14-N04, B14-N05		B12-M02A	. Toothpaste, toothpowder	1986
				From 198601 B12-L03 is not additionally applied.	
B12-L05	Hair preparation	1963-1993	B12-M02B	. Ointment, cream, lotion	1986
	Now coded as: B14-R02			Includes liniment and balm.	
B12-L06	Insect repellent	1963-1993	B12-M02C	. Cataplasm, poultice	1986
	Now coded as: B14-B05			Applying heat.	
B12-L07	Perfume	1963-1993	B12-M02D	. Adhesive sheet, sticking plaster, bandage	1986
	Now coded as: B14-R04			Excluding B12-M02C.	
B12-L08	Sunscreen agent	1963-1993	B12-M02E	. Dusting powder	1986
	Now coded as: B14-R05			Topical use only.	
B12-L09	Veterinary	1963-1993	B12-M02F	. Transdermal	1986
B12-L10	Agricultural composition general	1966-1993		Administration of a drug through dermal or mucosal membrane. Includes microneedles	
B12-M	FORMULATIONS TYPE		B12-M02G	. Gels/hydrogels	2006
	Codes in this section are applied only when the formulation is the main feature of the invention, or ingredients are not specified.				
B12-M01	Aerosol, inhalent, smoke general		B12-M03	Emulsion	
B12-M01A	. Aerosol	1986	B12-M04	Packaging material, apparatus	
B12-M01B	. Inhalent	1986		This code is used in conjunction with only the 11-C, 11-C01, 11-C07, 11-C08 and 11-C09 sub-sections of B11.	

B12-M05	Pharmaceutical composition general	B12-M10C	. Rapid release	2002
B12-M06	Preservative	B12-M10D	. Pulsed release	
B12-M07	Solution		Active drug core coated with specific polymers and agents, where active is released in a "drug pulse" after a time lag.	2005
B12-M08	Suppository	B12-M10E	. Site-specific release	
B12-M09	Surfactant		Drug bound to /or encased in a bio-polymer or other active substance in order to facilitate it's transfer through the cell wall. This ensures the drug is delivered to the specific cells it needs to reach.	2005
B12-M10	Controlled release general	B12-M10E1	.. Using liposomes	
B12-M10A	. Sustained release general		A site-specific release form in which the drug is encased within a liposome.	2005
	Active ingredient is gradually released over a period of time.	B12-M10E2	.. Using antibodies	
	1986		A site-specific release form in which the drug is bound to an antibody.	2005
B12-M10A1	.. Osmotic pump	B12-M10F	. Externally stimulated devices (e.g. electrically or ultrasonically)	
	Similar to a reservoir device but with an osmotic agent added (typically the active agent in salt form) which causes pressure generation that forces out the active agent.		Any controlled release device in which the release of the drug is by an external stimulus. May be used in conjunction with other B12-M10 codes.	2005
	2005	B12-M11	Tablets, capsules etc. general	
B12-M10A2	.. Reservoir devices	B12-M11A	. Anticaking	1986
	Active drug core encapsulated within a polymer film or coat through which it diffuses.	B12-M11B	. Tablet (pressed)	1986
	2005	B12-M11C	. Capsule	
B12-M10A3	.. Multi-layer tablet		Excluding microcapsule.	1986
	Variation on the matrix device in which the matrix is coated so as to modify the hydration/swelling of the core and so reduce the surface area available for drug delivery.	B12-M11D	. Pellet, prill, granule	
	2005		Excluding B12-M11B.	1986
B12-M10A4	.. Other matrix devices	B12-M11E	. Microcapsule	
	Drug is present as a dispersion within a polymer matrix. Also known as monolithic devices. Not used for the multi-layer tablet type (in which matrix is fully or partially coated) or for externally stimulated devices.		Excluding B12-M11F.	1986
	2005	B12-M11F	. Liposome	1986
B12-M10A5	.. Pendant devices	B12-M11G	. Powder	1986
	Active is bound to polymer, from which it is released by hydrolytic enzymes in the body.	B12-M11H	. Polymorphic form	2010
	2005	B12-M11H1	.. Special amorphous form	2006
B12-M10A6	.. Dual release devices		<i>Previous code(s): B12-M11H</i>	
	Typically soft gelatin capsules designed to provide an initial burst of drug followed by a steady release of the remainder. Consists of an inner aqueous matrix and outer lipophilic matrix.	B12-M11H2	.. Special crystal form	2010
	2005		<i>Previous code(s): B12-M11H</i>	
B12-M10A7	.. Nanotechnology devices	B12-M11J	. Effervescent tablet	1994
	Use of nanotechnology to deliver drugs to specific sites and control their release at that point.			
	2005			
B12-M10B	. Delayed release			
	This term is usually associated with enterically coated tablets which prevent the contents from being released until a drug reaches the intestines.			
	1986			

B12-M11K	. Tablet with two or more coating layers	1994	B12-M15	Film, sheet	2005
	<i>Previous code(s): B12-M11B</i>		B12-M16	Prosthesis	2005
B12-M11L	. Water-soluble tablet	2002	B12-M17	Surgical sponge, tampon	2005
B12-M11M	. Chewable tablet	2005	B12-M18	Encapsulation	2005
B12-M11N	. Microparticle	2006	B12-M19	Gene delivery methods	2006
B12-M11P	. Lyophilised form	2006	B12-M19A	. Gene delivery by viral methods	2006
B12-M11Q	. Nanoparticles previously coded as microparticles	2008	B12-M19B	. Gene delivery by non-viral methods	2006
B12-M11R	. Coated form general and other Tablets with two or more coating layers are coded under B12-M11K	2009	B12-M20	Taste masking agent	2007
B12-M11R1	.. Coated capsules	2009	B12-M21	Absorbent, accelerator	2007
B12-M11R2	.. Coated microparticles	2009	<hr/>		
B12-M12	Mode of administration	2005	B12-N	PESTICIDES, FERTILISERS	
B12-M12A	. Buccal, sublingual	2005	B12-N01	Pesticides general	1965-1993
B12-M12B	. External, topical	2005	B12-N02	Insecticides	1965-1993
B12-M12C	. Injection	2005	B12-N03	Lures, baits etc.	1965-1993
B12-M12D	. Infusion	2005	B12-N04	Molluscicide, slugicide	1965-1993
B12-M12E	. Intraarterial	2005	B12-N05	Rodenticide Including birds etc.	1965-1993
B12-M12F	. Intravenous	2005	B12-N06	Rodent repellent Including birds etc.	1965-1993
B12-M12G	. Intraaural	2005	B12-N07	Soil fumigants, sterilants and seed protectants	1965-1993
B12-M12H	. Intraocular	2005	B12-N08	Soil improving (other than nutrients) synthetic growth media	1965-1993
B12-M12J	. Intramuscular	2005	B12-N09	Soil nutrients Inorganic, including trace elements.	1965-1993
B12-M12K	. Subcutaneous	2005	B12-N10	Soil nutrients (others)	1965-1993
B12-M12L	. Intrauterine	2005	<hr/>		
B12-M12M	. Intravaginal	2005	B12-P	PLANT GROWTH REGULANT TYPE	
B12-M12N	. Oral general	2005	B12-P01	Plant growth regulants general	1965-1993
B12-M12P	. Rectal general	2005	B12-P02	Defoliants, desiccants, chemical mowing	1965-1993
B12-M12Q	. Intranasal	2006	B12-P03	Fruit drop and set, thinning of fruit	1965-1993
B12-M14	Suspensions, dispersions	2005	B12-P04	Growth stimulants, phytohormones	1965-1993
			B12-P05	Herbicide (total and general)	1965-1993

B12-P06	Herbicide (selective)	1965-1993
B12-P07	Moss, lichen controlling	1965-1993
B12-P08	Rooting cpds. (rhizogenes)	1965-1993
B12-P09	Sprouting inhibitors, seed germination inhibitors, growth inhibitors	1965-1993
B12-P10	Moisture conservation (mulches)	1965-1993
B12-Q01	Pharmacogenomics	2006
B12-Q01A	. Pharmacogenomics general	2006
B12-R	<b>FORMULATION SPECIFICALLY EXCLUDING ONE OR MORE COMPONENTS</b> e.g. analgesic formulation specifically excluding aspirin. The component(s) excluded is/are not coded in sections B01-B10.	2009

## B14 PHARMACEUTICAL ACTIVITIES

When a patent refers to a drug's mode of action and lists a number of activities associated with it, only the mode of action is coded.

B14-A	Antimicrobials	1994
B14-A01	Antibacterial general	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A	. Gram-negative genera, general and other	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A1	.. <b>Bordetella</b> e.g. B. pertussis (causes whooping cough).	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A2	.. <b>Borrelia</b> e.g. B. burgdorferi (causes Lyme disease).	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A3	.. <b>Escherichia</b> e.g. E. coli.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A4	.. <b>Mycoplasma</b> e.g. M. pneumoniae, M. mycoides.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A5	.. <b>Neisseria</b> e.g. N. gonorrhoeae, N. meningitidis.	1994
	<i>Previous code(s): B12-A05</i>	
B14-A01A6	.. <b>Pseudomonas</b> e.g. P. aeruginosa, P. mallei.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A7	.. <b>Rickettsia</b> e.g. R. prowazekii (causes typhus).	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A8	.. <b>Salmonella</b> e.g. S. typhi (causes typhoid fever).	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01A9	.. <b>Vibrio</b> e.g. V. cholerae, V. parahaemolyticus.	1994
	<i>Previous code(s): B12-A01</i>	
B14-A01B	. Gram-positive genera, general and other	1994
	<i>Previous code(s): B12-A01</i>	



B14-A01B1	.. <b>Mycobacteria</b> e.g. M.bovis, M. phlei.  <i>Previous code(s): B12-A01, B12-A03, B12-A04,</i>	1994	B14-A02A9	.. <b>Parvovirus</b> Includes treatment of "Slapped cheek" syndrome.	2005
B14-A01B1A	... <b>M. tuberculosis</b>	2005	B14-A02B	. <b>RNA Viruses general and other</b>  <i>Previous code(s): B12-A06</i>	1994
B14-A01B1B	... <b>M. leprae</b>	2005	B14-A02B1	.. <b>Retrovirus</b> Including leuco- and oncoviruses, T-cell leukemia virus, HIV, Rous sarcoma. Non-antiviral AIDS treatment is coded B14-G01B.	1994
B14-A01B2	.. <b>Streptococcus</b> e.g. S. pyogenes, S. faecalis, S. pneumoniae (pneumococci), S. lactis.  <i>Previous code(s): B12-A01</i>	1994	B14-A02B2	.. <b>(Para/ortho)Myxovirus</b> Including Influenza and mumps. In non-antiviral treatments other codes may be applied, e.g. antipyretic drug for treating 'flu is coded B14-C04 only.	1994
B14-A01B3	.. <b>Streptomyces</b> e.g. S. griseus, S. scabies.  <i>Previous code(s): B12-A01</i>	1994	B14-A02B3	.. <b>Picornavirus</b> Including entero-, rhino-, polio-, cold, hepatitis A. For hepatitis B see B14-A02A5. When treatment against cold is directed against symptoms, other codes may be applied, e.g. antiinflammatory drug for treating common cold is coded B14-C03 only.	1994
B14-A01B4	.. <b>Staphylococcus</b> e.g. S. aureus, S. epidermitidis.  <i>Previous code(s): B12-A01</i>	1994	B14-A02B4	.. <b>Rhabdovirus</b> Including rabies.	1994
B14-A01B5	.. <b>Bacillus</b> e.g. B. anthracis, B. cereus  <i>Previous code(s): B14-A01B</i>	2006	B14-A02B5	.. <b>Coronavirus</b>  Including SARS, also coded as B14-K01D. <i>Previous code(s): B12-A06</i>	1994
B14-A02	<b>Antiviral general</b>  <i>Previous code(s): B12-A06</i>	1994	B14-A02B6	.. <b>Togavirus</b> Including rubella.  <i>Previous code(s): B12-A06</i>	1994
B14-A02A	. <b>DNA Viruses general and other</b>  <i>Previous code(s): B12-A06</i>	1994	B14-A02B7	.. <b>Reovirus</b> e.g. rotavirus.  <i>Previous code(s): B12-A06</i>	1994
B14-A02A1	.. <b>Adenovirus</b>  <i>Previous code(s): B12-A06</i>	1994	B14-A02B9	.. <b>Flavivirus</b> Includes Yellow Fever virus, Japanese encephalitis virus, Dengue virus, Hepatitis G virus and West Nile virus. Excludes Hepatitis C virus (coded B14-A02A7).	2005
B14-A02A2	.. <b>Arbovirus</b> This code is used for treatment of e.g. yellow fever or viral encephalitis.  <i>Previous code(s): B12-A06</i>	1994	B14-A03	<b>Antiprotozoal general and other</b>  <i>Previous code(s): B12-B04</i>	1994
B14-A02A3	.. <b>Herpesvirus</b> e.g. cytomegalovirus, Epstein-Barr, chicken pox.  <i>Previous code(s): B12-A06</i>	1994			
B14-A02A4	.. <b>Poxvirus</b>  <i>Previous code(s): B12-A06</i>	1994			
B14-A02A5	.. <b>Hepatitis B virus</b>  <i>Previous code(s): B12-A06, B12-G02</i>	1994			
B14-A02A6	.. <b>Papovavirus</b> e.g. papilloma.  <i>Previous code(s): B12-A06</i>	1994			
B14-A02A7	. <b>Hepatitis C treatment</b>	2002			
B14-A02A8	. <b>Hepatitis D treatment</b>	2002			

B14-A03A	. <b>Amoebicide</b> <i>Previous code(s): B12-B01</i>	1994	B14-B03B	. <b>Schistosomicide</b> <i>Previous code(s): B12-B06</i>	1994
B14-A03B	. <b>Antimalarial</b> Plasmodium is the malarial parasite. <i>Previous code(s): B12-B03</i>	1994	B14-B03C	. <b>Tapeworm</b> <i>Previous code(s): B12-B02</i>	1994
B14-A03C	. <b>Coccidiostat</b> Includes Eimeria and Isospora. <i>Previous code(s): B12-B05</i>	1994	B14-B03D	. <b>Distomicide, other fluke</b>	2005
B14-A03D	. <b>Trichomonicide, histomonicide</b> <i>Previous code(s): B12-B04</i>	1994	B14-B04	<b>Arthropodicide general and other</b> Includes crustacicide, arachnicide and millipede killing. <i>Previous code(s): B12-N01</i>	1994
B14-A03E	. <b>Trypanocide</b> i.e. Sleeping sickness. <i>Previous code(s): B12-B07</i>	1994	B14-B04A	. <b>Acaricide</b> Includes tickicides and miticides. <i>Previous code(s): B12-B04</i>	1994
B14-A03F	. <b>Other antiprotozoal</b>	2005	B14-B04B	. <b>Insecticide general and other</b> <i>Previous code(s): B12-N02</i>	1994
B14-A04	<b>Antifungal general and other</b>	1994	B14-B04B1	.. <b>Coleoptera</b> Covers beetle killing. <i>Previous code(s): B12-N02</i>	1994
B14-A04A	. <b>Aspergillus</b> <i>Previous code(s): B12-A02C</i>	1994	B14-B04B2	.. <b>Dictyoptera</b> Includes cockroach and termite killing. <i>Previous code(s): B12-N02</i>	1994
B14-A04B	. <b>Candida</b> This organism commonly causes thrush. <i>Previous code(s): B12-A02C</i>	1994	B14-B04B3	.. <b>Diptera</b> Includes house fly, mosquito and gnat killing. <i>Previous code(s): B12-N02</i>	1994
B14-A04C	. <b>Trichophyton, Microsporum</b> This code covers treatment of e.g. ringworm, tinea, Athlete's foot. <i>Previous code(s): B12-A02C</i>	1994	B14-B04B4	.. <b>Ephemeroptera</b> Includes mayfly killing. <i>Previous code(s): B12-N02</i>	1994
B14-A05	<b>Antialgal</b> <i>Previous code(s): B12-A02A</i>	1994	B14-B04B5	.. <b>Hemiptera</b> Includes aphid killing. <i>Previous code(s): B12-N02</i>	1994
B14-B	<b>PESTICIDES AND OTHER ANTIPARASITICS</b>	1994	B14-B04B6	.. <b>Hymenoptera</b> Includes bee, wasp and ant killing. <i>Previous code(s): B12-N02</i>	1994
B14-B01	<b>Pesticide general</b> This code is applied only when type is unspecified or general. <i>Previous code(s): B12-N01</i>	1994	B14-B04B7	.. <b>Lepidoptera</b> Covers butterfly and moth killing. <i>Previous code(s): B12-N02</i>	1994
B14-B02	<b>Antiparasitic general</b> This code is applied only when type is unspecified or general. <i>Previous code(s): B12-B04</i>	1994	B14-B04B8	.. <b>Orthoptera</b> Includes locust killing. <i>Previous code(s): B12-N02</i>	1994
B14-B03	<b>Vermicide, antihelminthic general and other</b> <i>Previous code(s): B12-B02</i>	1994	B14-B04B9	.. <b>Siphonaptera</b> Includes flea killing. <i>Previous code(s): B12-N02</i>	1994
B14-B03A	. <b>Nematocide</b> Including threadworm. <i>Previous code(s): B12-B02</i>	1994			

B14-B05	<b>Insect repellent</b>	1994	B14-C04	<b>Antipyretic</b>	1994
	<i>Previous code(s): B12-L06</i>			<i>Previous code(s): B12-D08</i>	
B14-B06	<b>Insect attractant</b>	1994	B14-C05	<b>Antihypothermia</b>	1994
	Including pheromones used as attractants.			<i>Previous code(s): B12-D08</i>	
	<i>Previous code(s): B12-N03</i>		B14-C06	<b>Antirheumatic</b>	1994
B14-B07	<b>Insect sterilant</b>	1994		<i>Previous code(s): B12-D09</i>	
	<i>Previous code(s): B12-K03</i>		B14-C07	<b>General anaesthetic</b>	1994
B14-B08	<b>Antilichen</b>	1994		<i>Previous code(s): B12-C01</i>	
	<i>Previous code(s): B12-A02B</i>		B14-C08	<b>Local anaesthetic</b>	1994
B14-B09	<b>Rodenticide</b>	1994		<i>Previous code(s): B12-C02</i>	
	<i>Previous code(s): B12-N05</i>		B14-C09	<b>Antiarthritic general and other</b>	1994
B14-B10	<b>Avicide</b>	1994		<i>Previous code(s): B12-D03</i>	
	<i>Previous code(s): B12-N05</i>		B14-C09A	. <b>Osteoarthritis</b>	1994
B14-B11	<b>Piscicide</b>	1994		<i>Previous code(s): B12-D03</i>	
	<i>Previous code(s): B12-N05</i>		B14-C09B	. <b>Rheumatoid-arthritis</b>	1994
B14-B12	<b>Molluscicide</b>	1994		<i>Previous code(s): B12-D03</i>	
	Includes gastropodcides, slug, snail, bivalve and octopus killing.		<hr/>		
	<i>Previous code(s): B12-N04</i>		B14-D	<b>HORMONAL, ANTIHORMONAL, ENZYME INHIBITORS</b>	
B14-B13	<b>Animal repellent (other than insect)</b>	1994		*These codes are also used for agonist/	
	<i>Previous code(s): B12-N06</i>			mimetic or receptor agonist/mimetic	
B14-B14	<b>Lures, baits (other than insect pheromones)</b>	1994		activities. **These codes are also used for	
	<i>Previous code(s): B12-N03</i>			antagonist/inhibitor or receptor	
				antagonist/inhibitor activities, e.g.	
				aldosterone receptor antagonist is coded	
				B14-D02A1. See section B14-L for other	
				agonist/antagonist activities.	1994
<hr/>			B14-D01	<b>Hormonal general and other*</b>	1994
B14-C	<b>ANAESTHETICS AND DRUGS RELIEVING FEVER, INFLAMMATION AND PAIN</b>	1994		<i>Previous code(s): B12-G04</i>	
B14-C01	<b>Analgesic</b>	1994	B14-D01A	. <b>Androgenic*</b>	1994
	This code is used when the action of the analgesic is very wide or unspecified. A more specific code is applied where possible, e.g. analgesic for treating dysmenorrhea only is coded under B14-N14 only.			<i>Previous code(s): B12-G04B</i>	
	<i>Previous code(s): B12-D01</i>		B14-D01B	. <b>Oestrogenic*</b>	1994
				<i>Previous code(s): B12-G04C</i>	
B14-C02	<b>Antigout</b>	1994	B14-D01C	. <b>Progestational*</b>	1994
	<i>Previous code(s): B12-D07, B12-G03</i>			<i>Previous code(s): B12-G04D</i>	
B14-C03	<b>Antiinflammatory general</b>	1994	B14-D01D	. <b>Other steroid*</b>	1994
	This code is used for treatment of general oedema or inflammation. Specific inflammation treatments are coded elsewhere when possible e.g. Bronchitis is coded B14-K01 only, colitis as B14-E10C only etc..			<i>Previous code(s): B12-G04</i>	
	<i>Previous code(s): B12-D07</i>		B14-D01E	. <b>Peptide hormone activity*</b>	1994
				<i>Previous code(s): B12-G04</i>	
			B14-D01E1	.. <b>Melanocortin agonist</b>	2005
				Adrenocorticotrophic hormone agonist.	
			B14-D01E2	.. <b>Melanin concentrating hormone agonist</b>	2005

B14-D02	<b>Antihormonal general and other**</b> <i>Previous code(s): B12-G01A</i>	1994	B14-D05C	<b>Antioxygenases</b> <i>Previous code(s): B12-G01B1</i>	1994
B14-D02A	<b>Antisteroid general and other**</b> <i>Previous code(s): B12-G01A</i>	1994	B14-D05D	<b>Antidehydrogenases, Antireductases</b> <i>Previous code(s): B12-G01B1</i>	1994
B14-D02A1	<b>Antialdosterone**</b> <i>Previous code(s): B12-G01A</i>	1994	B14-D06	<b>Antitransferases general and other</b> Includes HIV integrase inhibitor. <i>Previous code(s): B12-G01B2</i>	1994
B14-D02A2	<b>Anticholesterol**</b> <i>Previous code(s): B12-H03</i>	1994	B14-D06A	<b>AntiDNA/RNA polymerase</b> <i>Previous code(s): B12-G01B2</i>	1994
B14-D02A3	<b>Antiestrogenic</b> This code also covers estrogenic antagonist/inhibitor activity and estrogen receptor antagonist/inhibitor activities. 2005	2005	B14-D06B	<b>Antireverse transcriptase</b> <i>Previous code(s): B12-G01B2</i>	1994
B14-D02A4	<b>Antiprogestational</b> This code also covers progestational antagonist/inhibitor activity and progestational receptor antagonist/inhibitor activities. 2005	2005	B14-D06C	<b>Antikinase</b>	2005
B14-D02A5	<b>Antiandrogenic</b> This code also covers androgenic antagonist/inhibitor activity and androgen receptor antagonist/inhibitor activities. 2005	2005	B14-D07	<b>Antihydrolases general and other</b> <i>Previous code(s): B12-G01B3</i>	1994
B14-D02A6	<b>Other antisteroid hormone</b> This code also covers other steroid antagonist/inhibitor activity and other steroid receptor antagonist/inhibitor activities. 2005	2005	B14-D07A	<b>Antiesterases</b> Including lipase, nuclease, restriction enzyme, sulphatase, phosphatase inhibitors. <i>Previous code(s): B12-G01B3</i>	1994
B14-D02B	<b>Antipeptide hormone**</b> <i>Previous code(s): B12-G01A</i>	1994	B14-D07A1	<b>Antiphosphodiesterases</b>	2005
B14-D02B1	<b>Melanocortin antagonist</b>	2005	B14-D07B	<b>Antiglycosidases</b> Including amylase, cellulase, lactase inhibitors. <i>Previous code(s): B12-G01B3</i>	1994
B14-D02B2	<b>Melanin concentrating hormone agonist</b>	2005	B14-D07C	<b>Antiproteases, antipeptide hydrolases</b> Including chymotrypsin, trypsin, papain, fibrinolysin, renin collagenases, elastases inhibitors. Renin inhibitor used as hypotensive is coded B14-F02B1 only. <i>Previous code(s): B12-G01B3</i>	1994
B14-D03	<b>Enzyme inhibitors general and other</b> <i>Previous code(s): B12-G01B</i>	1994	B14-D07C1	<b>Antimetalloproteases</b>	2005
B14-D04	<b>Coenzyme inhibitors</b> <i>Previous code(s): B12-G01B</i>	1994	B14-D08	<b>Antilyases</b> Including adenylyl cyclases, (de)carboxylases, aldolases, dehydratases inhibitors. <i>Previous code(s): B12-G01B4</i>	1994
B14-D05	<b>Antioxidoreductases general and other</b> <i>Previous code(s): B12-G01B1</i>	1994	B14-D09	<b>Antiisomerases</b> Including racemases, tautomerases, epimerases, mutases inhibitors. <i>Previous code(s): B12-G01B5</i>	1994
B14-D05A	<b>Antioxidases</b> <i>Previous code(s): B12-G01B1</i>	1994			
B14-D05B	<b>Antiperoxidases</b> <i>Previous code(s): B12-G01B1</i>	1994			

B14-D10	<b>Antiligeses</b> Including synthetases, some carboxylases inhibitors.  <i>Previous code(s): B12-G01B6</i>	1994	B14-E11	<b>Anabolic, anorexia treatment general</b>  <i>Previous code(s): B12-J01</i>	1994
B14-E	<b>DRUGS ACTING ON THE GASTROINTESTINAL SYSTEM</b>	1994	B14-E11A	. <b>Anorexia</b>	2005
B14-E01	<b>Antacid</b>  <i>Previous code(s): B12-J03</i>	1994	B14-E11B	. <b>Cachexia</b> Any general reduction in the vitality and/or strength of the body and/or mind as a result of a debilitating chronic illness.	2005
B14-E02	<b>Antidiarrhoeal</b>  <i>Previous code(s): B12-J04</i>	1994	B14-E11C	. <b>Malnutrition</b>	2005
B14-E03	<b>Antiflatulent</b>  <i>Previous code(s): B12-J03</i>	1994	B14-E11D	. <b>Bulimia</b>	2005
B14-E04	<b>Antihaemorrhoidal</b>  <i>Previous code(s): B12-J04</i>	1994	B14-E12	<b>Anorectic, obesity treatment (appetite depressant)</b>  <i>Previous code(s): B12-J02</i>	1994
B14-E05	<b>Antiemetic</b>  <i>Previous code(s): B12-D05</i>	1994	B14-F	<b>DRUGS ACTING ON THE BLOOD AND CARDIOVASCULAR SYSTEM</b> *These codes are also used for agonist/mimetic or receptor agonist/mimetic activities. **These codes are also used for antagonist/inhibitor or receptor antagonist/inhibitor activities. See section B14-L for other agonist/antagonist activities.	1994
B14-E06	<b>Emetic</b>  <i>Previous code(s): B12-J06</i>	1994	B14-F01	<b>Cardioactive general and other</b>  <i>Previous code(s): B12-F01</i>	1994
B14-E07	<b>Gastric secretion inhibitor</b>  <i>Previous code(s): B12-J02</i>	1994	B14-F01A	. <b>Antiarrhythmic</b>  <i>Previous code(s): B12-F01A</i>	1994
B14-E08	<b>Ulcer treatment (peptic, gastric, duodenal)</b> Skin ulcers are coded B14-N17B.  <i>Previous code(s): B12-E08</i>	1994	B14-F01B	. <b>Cardiac stimulant</b> Including treatment of myocardial infarct, myocardial contraction intensifying, cardiotonic, cardiac arrest treatment, cardiac insufficiency treatment.	1994
B14-E09	<b>Laxative</b>  <i>Previous code(s): B12-J07</i>	1994	B14-F01C	. <b>Cardiac depressant</b>  <i>Previous code(s): B12-F01C</i>	1994
B14-E10	<b>Gastrointestinal dysfunction general and other</b>  <i>Previous code(s): B12-J01</i>	1994	B14-F01D	. <b>Antianginal</b>  <i>Previous code(s): B12-F02</i>	1994
B14-E10A	. <b>Oesophagal</b>  <i>Previous code(s): B12-J01</i>	1994	B14-F01E	. <b>Coronary dilator, coronary ischaemia treatment</b>  <i>Previous code(s): B12-F02</i>	1994
B14-E10B	. <b>Gastric</b> Includes gastritis.  <i>Previous code(s): B12-J01</i>	1994	B14-F01F	. <b>Ganglion blocker</b>  <i>Previous code(s): B12-F03</i>	1994
B14-E10C	. <b>Bowel</b> Including irritable and inflammatory bowel (e.g. IBS).  <i>Previous code(s): B12-J01</i>	1994	B14-F01G	. <b>Restenosis treatment</b>	2002
B14-E10C1	.. <b>Inflammatory bowel conditions</b>	2005			
B14-E10D	. <b>Dysentery</b>  <i>Previous code(s): B12-B01, B12-A01, B12-A06, B12-J04, B12-J05</i>	1994			

B14-F02	Circulatory active general and other	1994	B14-F06A	Dyslipidemia	2005
	<i>Previous code(s): B12-E01</i>				
B14-F02A	. Hypertensive (calcium agonists)*	1994	B14-F07	Antiartherosclerotic	
	<i>Previous code(s): B12-F04</i>			Includes atherosclerosis.	1994
B14-F02B	. Hypotensive general and other	1994	B14-F08	Coagulant	
	<i>Previous code(s): B12-F05</i>			<i>Previous code(s): B12-H04</i>	1994
B14-F02B1	.. Angiotensin converting enzyme inhibitor, angiotensin antagonists**	1994	B14-F09	Hypoglycaemic	
	This code covers renin inhibitors when used as hypotensives.			Treatment of diabetic symptoms is coded B14-S04.	1994
	<i>Previous code(s): B12-F05A</i>		B14-F10	Hyperglycaemic	
B14-F02B2	.. Calcium antagonists/entry blockers**	1994		<i>Previous code(s): B12-H05</i>	1994
	<i>Previous code(s): B12-F05B,B12-G01</i>		B14-F11	Plasma and blood substitutes	1994
B14-F02C	. Vasoconstrictor	1994		<i>Previous code(s): B12-H06</i>	
	<i>Previous code(s): B12-F06</i>		B14-G	DRUGS ACTING ON THE IMMUNE SYSTEM	1994
B14-F02D	. Vasodilator, general ischaemia treatment	1994	B14-G01	Immunostimulant general and other	1994
	<i>Previous code(s): B12-F07</i>			<i>Previous code(s): B12-A01,B12-A06</i>	
B14-F02D1	.. Cerebral ischaemia treatment	1994	B14-G01A	. Interferon inducing	
	<i>Previous code(s): B12-F07,B12-C10</i>			This code is also used for agonist/mimetic or receptor agonist/mimetic activity.	1994
B14-F02D2	.. Pulmonary ischaemia treatment	1994		<i>Previous code(s): B12-A06</i>	
	<i>Previous code(s): B12-K06</i>		B14-G01B	. AIDS treatment	
B14-F02E	. Lymphatic disease treatment	1994		A drug which combats HIV is coded B14-A02B1.	1994
	<i>Previous code(s): B12-G03</i>			<i>Previous code(s): B12-A06</i>	
B14-F02F	. Peripheral vascular disorder/angiogenic general	2002	B14-G02	Immunosuppressant general and other	1994
				<i>Previous code(s): B12-D02B</i>	
B14-F02F1	.. Angiogenic	2002	B14-G02A	. Antiallergic	
				<i>Previous code(s): B12-D02</i>	1994
B14-F02F2	.. Anti-angiogenic	2002	B14-G02B	. Antianaphylactic	
				<i>Previous code(s): B12-D02D</i>	1994
B14-F02F3	.. Peripheral vascular disorder	2002	B14-G02C	. Graft/transplant rejection treatment	1994
				<i>Previous code(s): B12-D02B</i>	
B14-F03	Antianaemic	1994	B14-G02D	. Autoimmune disease treatment	1994
	This code covers treatment of blood cell ratio imbalance.			<i>Previous code(s): B12-D02A</i>	
	<i>Previous code(s): B12-H01</i>		B14-G03	Immunomodulatory	1994
B14-F04	Anticoagulant, antiaggregants, thrombolytic	1994		<i>Previous code(s): B12-A01,B12-A06,B12-D02B</i>	
	<i>Previous code(s): B12-H02</i>				
B14-F05	Reperfusion treatment	1994			
B14-F06	Antilipaemic	1994			
	<i>Previous code(s): B12-H03</i>				

<b>B14-H</b>	<b>CANCER RELATED DRUGS</b> Codes from sections B14-H01D -H01Z are now structured within the hierarchy B14-H01D to B14-H01L below. All document records containing codes introduced in 2005 will be changed to reflect the updated 2006 hierarchy and codes B14-H01M to B14-H01Z will no longer be searchable.		
		1994	
<b>B14-H01</b>	<b>Anticancer general and other</b>	1994	
	<i>Previous code(s): B12-G07</i>		
<b>B14-H01A</b>	. <b>Leukaemia treatment</b>	1994	
	<i>Previous code(s): B12-G05</i>		
<b>B14-H01B</b>	. <b>Antiproliferative, inhibitor of cell division, cytostatic</b>	1994	
	<i>Previous code(s): B12-D07, B12-E08, B12-G07</i>		
<b>B14-H01C</b>	. <b>Dermatological cancers</b>	2006	
<b>B14-H01D</b>	. <b>Endocrine cancers</b>	2006	
<b>B14-H01D1</b>	.. <b>Breast cancers</b>	2006	
<b>B14-H01D2</b>	.. <b>Thyroid cancers</b>	2006	
<b>B14-H01E</b>	. <b>Gastrointestinal cancers</b>	2006	
<b>B14-H01E1</b>	.. <b>Colon cancers</b>	2006	
<b>B14-H01E2</b>	.. <b>Oesophageal cancers</b>	2006	
<b>B14-H01E3</b>	.. <b>Gall bladder cancers</b>	2006	
<b>B14-H01E4</b>	.. <b>Intestinal cancers</b>	2006	
<b>B14-H01E5</b>	.. <b>Hepatic cancers</b>	2006	
<b>B14-H01E6</b>	.. <b>Pancreatic cancers</b>	2006	
<b>B14-H01E7</b>	.. <b>Rectal cancers</b>	2006	
<b>B14-H01E8</b>	.. <b>Stomach cancers</b>	2006	
<b>B14-H01F</b>	. <b>Genitourinary cancers</b>	2006	
<b>B14-H01F1</b>	.. <b>Cervical/uterine cancers</b>	2006	
<b>B14-H01F2</b>	.. <b>Kidney cancers</b>	2006	
<b>B14-H01F3</b>	.. <b>Ovarian cancers</b>	2006	
<b>B14-H01F4</b>	.. <b>Prostate cancers</b>	2006	
<b>B14-H01F5</b>	.. <b>Testicular cancers</b>	2006	
<b>B14-H01F6</b>	.. <b>Bladder cancers</b>	2006	
<b>B14-H01G</b>	. <b>Immunological cancers</b>	2006	
<b>B14-H01G1</b>	.. <b>Hodgkin's lymphoma</b>	2006	
<b>B14-H01G2</b>	.. <b>Non-Hodgkin's lymphoma</b>	2006	
<b>B14-H01H</b>	. <b>Musculoskeletal cancers</b>	2006	
<b>B14-H01H1</b>	.. <b>Osteocancers</b>	2006	
<b>B14-H01H2</b>	.. <b>Sarcoma</b>	2006	
<b>B14-H01J</b>	. <b>Neurological cancers</b>	2006	
<b>B14-H01J1</b>	.. <b>Brain tumours</b>	2006	
<b>B14-H01K</b>	. <b>Oral and respiratory cancers</b>	2006	
<b>B14-H01K1</b>	.. <b>Buccal cavity and pharynx cancers</b>	2006	
<b>B14-H01K2</b>	.. <b>Larynx cancers</b>	2006	
<b>B14-H01K3</b>	.. <b>Lung cancers</b>	2006	
<b>B14-H01L</b>	. <b>Other cancers</b>	2006	
<b>B14-H01L1</b>	.. <b>Multiple myelomas</b>	2006	
<b>B14-H01M</b>	. <b>Larynx cancer</b>	2005-2006	
	<i>Now coded as B14-H01K2</i>		
<b>B14-H01N</b>	. <b>Lung cancer</b>	2005-2006	
	<i>Now coded as B14-H01K3</i>		
<b>B14-H01P</b>	. <b>Multiple myeloma</b>	2005-2006	
	<i>Now coded as B14-H01L1</i>		
<b>B14-H01Q</b>	. <b>Non-Hodgkin's lymphoma</b>	2005-2006	
	<i>Now coded as B14-H01G2</i>		
<b>B14-H01R</b>	. <b>Oesophageal cancer</b>	2005-2006	
	<i>Now coded as B14-H01E2</i>		
<b>B14-H01S</b>	. <b>Ovarian cancer</b>	2005-2006	
	<i>Now coded as B14-H01F3</i>		
<b>B14-H01T</b>	. <b>Pancreatic cancer</b>	2005-2006	
	<i>Now coded as B14-H01E6</i>		
<b>B14-H01U</b>	. <b>Prostate cancer</b>	2005-2006	
	<i>Now coded as B14-H01F4</i>		
<b>B14-H01V</b>	. <b>Rectal cancer</b>	2005-2006	
	<i>Now coded as B14-H01E7</i>		

B14-H01W	. Skin melanoma	2005-2006	B14-J01B1	.. Hypnotic	1994
	<i>Now coded as B14-H01C</i>			<i>Previous code(s): B12-C07</i>	
B14-H01X	. Stomach cancer	2005-2006	B14-J01B2	.. Sedative	1994
	<i>Now coded as B14-H01E8</i>			<i>Previous code(s): B12-C08</i>	
B14-H01Y	. Testicular cancer	2005-2006	B14-J01B3	.. Antipsychotic, neuroleptic, antischizophrenic	1994
	<i>Now coded as B14-H01F5</i>			<i>Previous code(s): B12-C10, B12-E02</i>	
B14-H01Z	. Thyroid cancer	2005-2006	B14-J01B4	.. Tranquilliser, anxiolytic	1994
	<i>Now coded as B14-H01D2</i>			<i>Previous code(s): B12-C10</i>	
B14-H02	Mutagen, carcinogen	1994	B14-J02	Autonomic NS active general and other	1994
	<i>Previous code(s): B12-G07</i>			<i>Previous code(s): B12-E01</i>	
B14-H03	Apoptotic	2002	B14-J02A	. Parasympathetic stimulants, mimetics general and other*	1994
B14-H04	Anti-apoptotic	2002		<i>Previous code(s): B12-E05</i>	
B14-H05	Antiproliferative (non-cancerous) e.g. Hyperplasia.	2006	B14-J02A1	.. Cholinergic (acetyl choline potentiators)*	1994
				<i>Previous code(s): B12-E05</i>	
B14-J	<b>DRUGS ACTING ON THE MUSCULAR AND NERVOUS SYSTEMS</b> *These codes are also used for agonist/mimetic or receptor agonist/mimetic activities, e.g. dopamine receptor agonist is coded dopaminergic B14-J02C2. **These codes are also used for antagonist / inhibitor or receptor antagonist/inhibitor activities.		B14-J02A2	.. Muscarinic*	1994
		1994		<i>Previous code(s): B12-E05</i>	
B14-J01	CNS active general and other Covers terms such as cerebroprotective and neuroprotective.	1994	B14-J02B	. Parasympathetic depressant, parasympatholytic general and other**	1994
	<i>Previous code(s): B12-C10</i>			<i>Previous code(s): B12-E04</i>	
B14-J01A	. Stimulants general and other	1994	B14-J02B1	.. Anticholinergic**	1994
	<i>Previous code(s): B12-C06</i>			<i>Previous code(s): B12-E04</i>	
B14-J01A1	.. Antidepressant	1994	B14-J02B2	.. Antimuscarinic**	1994
	<i>Previous code(s): B12-C06</i>			<i>Previous code(s): B12-E04</i>	
B14-J01A2	.. Analeptic	1994	B14-J02C	. Sympathetic stimulants general and other*	1994
	<i>Previous code(s): B12-C03</i>			<i>Previous code(s): B12-E07</i>	
B14-J01A3	.. Antiparkinsonian	1994	B14-J02C1	.. Adrenergic, adrenaline potentiator (alpha and beta)*	1994
	<i>Previous code(s): B12-C04</i>			<i>Previous code(s): B12-E07</i>	
B14-J01A4	.. Alzheimer's, Huntington's, senility, senile dementia, cognitive enhancer, antiamnesia, nootropics	1994	B14-J02C2	.. Dopaminergic*	1994
	<i>Previous code(s): B12-C10, B12-G04A</i>			<i>Previous code(s): B12-E07</i>	
B14-J01B	. Depressants general and other	1994	B14-J02D	. Sympathetic depressants, sympatholytic general and other**	1994
	<i>Previous code(s): B12-C05</i>			<i>Previous code(s): B12-E06</i>	
			B14-J02D1	.. Alpha-adrenergic blocker**	1994
				<i>Previous code(s): B12-E06A</i>	
			B14-J02D2	.. Beta-adrenergic blocker**	1994
				<i>Previous code(s): B12-E06B</i>	



B14-J02D3	.. Antidopaminergic** <i>Previous code(s): B12-E06</i>	1994	B14-K01E	. Decongestant, expectorant, mucolytic	1994
B14-J03	Serotoninergic* <i>Previous code(s): B12-G04</i>	1994	B14-K01F	. Adult respiratory distress syndrome (ARDS)	2002
B14-J04	Antiserotoninergic** <i>Previous code(s): B12-G01</i>	1994	<hr/>		
B14-J05	Muscular active general and other (inotropic) <i>Previous code(s): B12-E02</i>	1994	B14-L	AGONISTS/MIMETICS AND ANTAGONISTS/INHIBITORS NOT COVERED ELSEWHERE The codes in this section are also used for drugs acting at the receptor, e.g. histamine receptor agonist is coded B14-L05.	1994
B14-J05A	. Muscle relaxant (negatively inotropic) <i>Previous code(s): B12-E02</i>	1994	B14-L01	Agonist/mimetic general and other	1994
B14-J05B	. Mydriatic/myopic/hyperopic <i>Previous code(s): B12-E03</i>	1994	B14-L01A	. Enzyme agonist/mimetic	2005
B14-J05C	. Muscle contractant (positively inotropic) <i>Previous code(s): B12-E02</i>	1994	B14-L01A1	.. Oxidoreductase agonist	2007
B14-J05D	. Antispastic, antispasmodic, spasmolytic, spasm treatment <i>Previous code(s): B12-E02,B12-E04</i>	1994	B14-L01A2	.. Transferase agonist	2007
B14-J05E	. Duchenne's muscular dystrophy treatment	2002	B14-L01A3	.. Hydrolase agonist	2007
B14-J06	Convulsant <i>Previous code(s): B12-D10</i>	1994	B14-L01A4	.. Lyase agonist	2007
B14-J07	Anticonvulsant <i>Previous code(s): B12-D04</i>	1994	B14-L01A5	.. Isomerase agonist	2007
B14-K	DRUGS ACTING ON THE RESPIRATORY SYSTEM	1994	B14-L01A6	.. Synthetase agonist	2007
B14-K01	Respiratory active general and other Including anoxia, cystic fibrosis and bronchitis treatment. <i>Previous code(s): B12-K06</i>	1994	B14-L01B	. Cannabinoid receptor agonist	2006
B14-K01A	. Antiasthmatic <i>Previous code(s): B12-D02,B12-K02</i>	1994	B14-L01C	. PPAR agonist Peroxisome proliferator-activated receptor agonist.	2006
B14-K01B	. Antitussive <i>Previous code(s): B12-K01</i>	1994	B14-L01D	. Nitric oxide agonist	2007
B14-K01C	. Bronchoconstrictor <i>Previous code(s): B12-K06</i>	1994	B14-L02	Angiotensin agonist/mimetic N.B. Angiotensin antagonists/inhibitors are coded B14-F02B1.	1994
B14-K01D	. Bronchodilator <i>Previous code(s): B12-K02</i>	1994	B14-L03	Interleukin agonist/mimetic	1994
			B14-L04	Prostaglandin, leukotriene, thromboxane agonist/mimetic	1994
			B14-L05	Histaminergic, histamine agonist/mimetic	1994
			B14-L06	Antagonist/inhibitor/antimetabolite general and other <i>Previous code(s): B12-G01</i>	1994
			B14-L06B	. Cannabinoid receptor antagonist	2006
			B14-L06C	. PPAR antagonist Peroxisome proliferator-activated receptor antagonist.	2006

B14-L06D	. Nitric oxide antagonist	2007	B14-M01F	. Protecting plants from poisons	1994
B14-L07	Interleukin antagonist/inhibitor	1994		<i>Previous code(s): B12-J05E</i>	
B14-L08	Prostaglandin, leukotriene, thromboxane antagonist/inhibitor	1994	B12-M02	Pharmaceutical antidote general	2006
	<i>Previous code(s): B12-G01</i>		B14-M02A	. Chemoprotectant	2006
B14-L09	Histamine antagonist/inhibitor general and other	1994	B14-M02B	. Radioprotectant	2006
	<i>Previous code(s): B12-D06</i>				
B14-L10	H1 antagonist/inhibitor	1994	B14-N	ORGANS	1994
	<i>Previous code(s): B12-D06B</i>		B14-N01	Bone disorder treatment, osteoporosis	1994
B14-L11	H2 antagonist/inhibitor	1994		<i>Previous code(s): B12-J08</i>	
	<i>Previous code(s): B12-D06A</i>		B14-N01A	. Osteoporosis	2005
B14-L12	Proton pump inhibitors	2006	B14-N01B	. Fractures, disorders of healing and osteogenesis	2005
	<i>Previous code(s): B14-L06</i>		B14-N02	Ear disorder treatment	1994
				<i>Previous code(s): B12-L04</i>	
B14-M	ANTIDOTES	1994	B14-N03	Eye disorder treatment	1994
	<i>Previous code(s): B12-J05</i>			<i>Previous code(s): B12-L04</i>	
B14-M01	Antidote general and other	1994	B14-N03A	. Glaucoma	2005
	<i>Previous code(s): B12-J05</i>		B14-N04	Nose disorder treatment	1994
B14-M01A	. Alcoholism treatment	1994		<i>Previous code(s): B12-L04</i>	
	<i>Previous code(s): B12-J05A</i>		B14-N05	Mouth/throat disorder treatment	1994
B14-M01A1	.. Alcoholism treatment using replacement therapy	2009		<i>Previous code(s): B12-L04</i>	
B14-M01B	. Antismoking	1994	B14-N05A	. Mouth disorder	2005
	<i>Previous code(s): B12-J05B</i>			E.g. cold sores and xerostomia (chronic dry mouth).	
B14-M01B1	.. Antismoking treatment using replacement therapy	2009	B14-N05B	. Throat disorder	2005
	e.g. nicotine replacement patches and gum			Covers throat disorders but excludes disorders of the oesophagus.	
B14-M01C	. Antidrug addiction	1994	B14-N06	Dental general and other	1994
	Excluding addiction to nicotine and alcohol.			<i>Previous code(s): B12-L03</i>	
	<i>Previous code(s): B12-J05</i>		B14-N06A	. Anticaries/antiplaque	1994
B14-M01C1	.. Drug addiction treatment using replacement therapy	2009		<i>Previous code(s): B12-A01,B12-L03</i>	
	e.g. methadone treatment		B14-N06B	. Periodontal	1994
B14-M01D	. Antiheavy metal poisoning	1994		Includes gingivitis.	
	<i>Previous code(s): B12-J05C</i>			<i>Previous code(s): B12-L03,B12-L04</i>	
B14-M01E	. Pesticide/herbicide antidote	1994	B14-N07	Urogenital/anorectal disease treatment general and other	1994
	Includes herbicide safeners prior to 2009.			<i>Previous code(s): B12-A05, B12-D07, B12-G03, B12-G04</i>	
	<i>Previous code(s): B12-J05D</i>				

B14-N07A	. Prostate	1994	B14-N17	Skin treatment general and other	
	<i>Previous code(s): B12-G03,B12-G04</i>			Fungal skin diseases are coded under B14-A04.	
B14-N07B	. Cystitis	1994		<i>Previous code(s): B12-A07</i>	1994
	<i>Previous code(s): B12-D07</i>		B14-N17A	. Burn	1994
B14-N07C	. Venereal	1994		<i>Previous code(s): B12-A07</i>	
	<i>Previous code(s): B12-A05</i>		B14-N17B	. Wound other (physical trauma)	1994
B14-N07D	. Incontinence treatment	1994		<i>Previous code(s): B12-A07</i>	
	<i>Previous code(s): B12-G03</i>		B14-N17C	. Psoriasis, dermatitis	1994
B14-N08	Diuretic	1994		<i>Previous code(s): B12-A07</i>	
	<i>Previous code(s): B12-G03</i>		B14-N17D	. Acne	1994
B14-N09	Antidiuretic	1994		<i>Previous code(s): B12-A07</i>	
	<i>Previous code(s): B12-G03</i>		B14-N17E	. Dandruff and seborrhoea	2005
B14-N10	Kidney	1994	B14-N17F	. Antiscarring	2005
	<i>Previous code(s): B12-G03</i>				
B14-N11	Thyroid	1994	B14-N18	Mammary gland	
	<i>Previous code(s): B12-G06</i>			Including mastitis.	2002
B14-N12	Liver	1994			
	<i>Previous code(s): B12-G02</i>		B14-P	DRUGS ACTING ON THE REPRODUCTIVE SYSTEM	1994
B14-N13	Pancreas	1994	B14-P01	Contraceptive general and other	1994
	<i>Previous code(s): B12-G02</i>			<i>Previous code(s): B12-K03</i>	
B14-N14	Uterus	1994	B14-P01A	. Male, spermicide	1994
	Premenstrual syndrome and dysmenorrhea are covered here but labour inducing drugs are coded with abortifacients under B14-P01B.			<i>Previous code(s): B12-K03</i>	
	<i>Previous code(s): B12-E09</i>		B14-P01B	. Female, abortifacient, antioovulatory	1994
				<i>Previous code(s): B12-K03</i>	
B14-N15	Spleen	1994	B14-P02	Infertility treatment	1994
	<i>Previous code(s): B12-G02</i>		B14-P03	Antiabortive	1994
				<i>Previous code(s): B12-E09</i>	
B14-N16	Brain and spinal cord	1994	B14-P04	Sexual dysfunction	
	Including stroke, meningitis, encephalitis and other prion type diseases.			Sexual dysfunction general.	2006
	<i>Previous code(s): B12-C10,B12-E01</i>				
B14-N16A	. Bovine spongiforme encephalopathy (BSE) ("Mad cow disease")	2002	B14-P04A	. Male sexual dysfunction	2006
			B14-P04B	. Female sexual dysfunction	2006
B14-N16B	. Creutzfeld Jakob disease (CJD)	2002			
B14-N16C	. Kuru	2005	B14-R	COSMETICS	1994
				<i>Previous code(s): B12-L02</i>	
B14-N16D	. Scrapie	2005	B14-R01	Cosmetic general and other	1994
	A fatal degenerative disease affecting the CNS of sheep and goats.			<i>Previous code(s): B12-L02</i>	
			B14-R02	Hair preparation	1994
				<i>Previous code(s): B12-L05</i>	

B14-R03	<b>Antiperspirant</b>	1994	B14-S11A	. <b>Antiviral vaccine</b>	1994
	<i>Previous code(s): B12-L01</i>			<i>Previous code(s): B02-V02</i>	
B14-R04	<b>Perfume</b>	1994	B14-S11B	. <b>Other antimicrobial vaccine</b>	1994
	<i>Previous code(s): B12-L07</i>			e.g. antibacterial vaccine.	
B14-R05	<b>Sunscreen agent</b>	1994		<i>Previous code(s): B02-V02</i>	
	<i>Previous code(s): B12-L08</i>		B14-S11B1	.. <b>Antibacterial vaccine</b>	2005
B14-S	<b>MISCELLANEOUS ACTIVITY TERMS</b>	1994	B14-S11B2	.. <b>Antiprotozoal vaccine</b>	2005
B14-S01	<b>Multiple sclerosis treatment, demyelinating diseases</b>	1994	B14-S11B3	.. <b>Antiparasitic vaccine</b>	2005
	<i>Previous code(s): B12-E01</i>		B14-S11C	. <b>Anticancer vaccine</b>	1994
B14-S02	<b>Dwarfism treatment</b>	1994		<i>Previous code(s): B02-V02</i>	
	<i>Previous code(s): B12-G04</i>		B14-S11D	. <b>VACCINE TYPE</b>	2005
B14-S03	<b>Gene therapy general</b>	1994	B14-S11D1	.. <b>Whole-killed (inactive) vaccine</b>	2005
B14-S03A	. <b>Gene therapy</b>	2002	B14-S11D2	.. <b>Live-attenuated (weakened) vaccine</b>	2005
B14-S03B	. <b>Antisense therapy</b>	2002			
B14-S03C	. <b>RNA interference</b>	2005	B14-S11D3	.. <b>Synthetic/genetically engineered vaccine</b>	2005
B14-S04	<b>Diabetes</b>	1994	B14-S12	<b>Veterinary</b>	1994
	This code is used when a drug targets the symptoms and associated disorders. Hypoglycaemic is coded B14-F09.			Applied with other activity code(s) to indicate specific veterinary as opposed to medical use.	
	<i>Previous code(s): B12-H05</i>			<i>Previous code(s): B12-L09</i>	
B14-S04A	. <b>Type II diabetes</b>	2005	B14-S13	<b>Metabolic disorders</b>	2005
	Also known as adult onset diabetes or non-insulin dependent diabetes.			Includes enzyme deficiencies and conditions arising from such.	
B14-S05	<b>Shock treatment general (excluding anaphylactic)</b>	1994	B14-S13A	. <b>Acidosis</b>	2005
	Anaphylactic shock is coded B14-G02B.		B14-S14	<b>Joint disorders general</b>	2005
	<i>Previous code(s): B12-A07</i>			Includes conditions affecting tendons and bursa.	
B14-S06	<b>Toxic (septic) shock</b>	1994	B14-S14A	. <b>Cartilage and connective tissue disorders</b>	2009
	<i>Previous code(s): B12-A01,B12-A06</i>		B14-S14B	. <b>Soft tissue disorders</b>	2009
B14-S07	<b>Traumatic shock</b>	1994			
	<i>Previous code(s): B12-C10</i>		B14-S15	<b>Broad formulation</b>	2005
B14-S08	<b>Antioxidant/free radical scavenger</b>	1994		Patent is concerned with the formulation type rather than the drugs contained in it.	
B14-S09	<b>Synergist</b>	1994	B14-S16	<b>Many diseases treated</b>	2005
	<i>Previous code(s): B12-C09</i>			More than 15 diseases are said to be treated. Specific codes for the individual disease are still included.	
B14-S10	<b>Cot death</b>	1994	B14-S18	<b>Drug combination</b>	2006
B14-S11	<b>Vaccine general</b>	1994		Used when specific combination of drugs is claimed.	
	<i>Previous code(s): B02-V02</i>				

B14-S20	<b>Genetic disorder</b>	2006
B14-S20A	<b>. Chromosomal abnormality disorder</b>	2006
B14-S21	<b>Cell therapy</b>	2006
B14-S22	<b>Prophylaxis</b> Used only when a compound or formulation is solely for prophylaxis or prevention of a disorder	2009
B14-S23	<b>Unspecified activity</b> Applied to documents when a pharmaceutical formulation/substance with pharmaceutical activity is claimed but no specific disorders are mentioned as being treated i.e. when no other activity codes can be applied.	2009, 2010
B14-S24	<b>Pediatrics/geriatrics</b>	2009
B14-S25	<b>Chemotherapy</b>	2010
B14-S26	<b>Radiotherapy</b>	2010
B14-S27	<b>Photon therapy</b> Includes treatment using high energy photons.	2010
B14-Y	<b>GREEN CHEMISTRY</b> Used when processes/productions are kinder to the environment. Includes biodegradable	2006



## C: AGDOC

C01	Steroids
C02	Antibiotics ( <i>Vaccines pre-1994, see B14-S11 from 1994</i> )
C03	Vitamins
C04	Natural Products (or Genetically Engineered), Polymers
C05	Miscellaneous
C06	Heterocyclic Fused Ring
C07	Heterocyclics, Mononuclear
C08	Aromatics, Polycarbocyclic
C09	Alicyclics, Polycarbocyclic
C10	Aromatics and Cycloaliphatics (Mono and Bicyclic only), Aliphatics
C11	Processes, Apparatus
C12	Diagnostics and Formulation Types <i>(Therapeutic, Pesticidal, Herbicidal)</i> <i>(pre-1994)</i>
C14	Agricultural Activities





## C: AGDOC

Before 1994 section C codes were generated by replacing "B" letter in Farmdoc by "C". The notes referring to "B" codes applied equally to "C" codes in Agdoc unless stated otherwise. A compound is normally assigned only one code from sections C01 to C10 according to the priority rule of C01 before C02 etc.

Compounds of known structure are always coded according to chemical structure in C05 to C10. However, steroids, antibiotics, vitamins and natural products (and their derivatives) are coded respectively in C01, C02, C03 and C04 unless stated otherwise (see C03, C03-J, C03-K, C04-A07A, C04-A07E for exclusions).

The code commenced in 1963 for Farmdoc and 1965 for Agdoc.

### C01 STEROIDS

This section covers all compounds containing the basic steroidal nucleus (cyclopentanophenanthrene ring), which may have other rings (carbocyclic or heterocyclic) fused onto it. Compounds which contain heteroatoms within the basic cyclopentanophenanthrene ring (e.g. azasteroids) are excluded. Homosteroids (containing extra carbon in the ring), norsteroids (missing one carbon in the ring) and : secosteroids (bonds broken, e.g. vitamin D) are also excluded. Steroids of unknown structure are coded under C04-B02D: (before 1994) or C04-J02 (after 1994) and C01-E (from 2010). All groups listed include derivatives. Thus hydroxy includes ethers, esters and cyclic derivatives (linked via an oxygen atom to a steroid carbon atom). All the compound types listed may contain additional substituents, provided that they are not specified for an earlier occurring code.

Conventions used

- 1 Steroids containing thio-groups (e.g. mercapto or thione), are assigned the same code as the corresponding oxygen containing compounds.
- 2 17, 20 and 21 hydroxy include all cyclic derivatives linked via -O- to 17, 20 or 21, provided these are not linked via atoms other than O(S) to 17, 20 or 21 positions.
- 3 3, 17 and 20 ketone include oxime, hydrazone etc., hemi-ketal, ketal (including those cyclic derivatives which satisfy convention (2)).
- 4 In deciding precedence, the highest priority is given to the lowest number.
- 5 'Y' represents 2-4 carbon chain, but includes cyclic derivatives only when they satisfy conventions (2) or (3).
- 6 'Z' represents hydroxyacetyl or 1,2-di-hydroxyethyl.

<b>C01-A</b>	<b>1,3,5(10)-TRIENES</b>
<b>C01-A01</b>	<b>Estrones (3-ol, 17-one)</b>
<b>C01-A02</b>	<b>Estradiols (3,17-diol)</b>
<b>C01-A03</b>	<b>Others</b>
<b>C01-B</b>	<b>RING 'A' DIENES</b>
<b>C01-B01</b>	<b>Prednisones (3,11-dione; 17-ol; 17-Z)</b>
<b>C01-B02</b>	<b>Prednisolones (3-one; 11,17-diol; 17-Z)</b>
<b>C01-B03</b>	<b>Other 1,4-dienes</b>
<b>C01-B04</b>	<b>Others</b>
<b>C01-C</b>	<b>RING 'A' MONOENES</b>
<b>C01-C01</b>	<b>Cortisones (3,11-dione; 17-ol; 17-Z)</b>
<b>C01-C02</b>	<b>Cortisols (3-one; 11,17-diol; 17-Z)</b>
<b>C01-C03</b>	<b>17-hydroxylprogesterones (3-one; 17-acetyl)</b>
<b>C01-C04</b>	<b>Progesterones (3-one; 17-acetyl)</b>
<b>C01-C05</b>	<b>Testosterones (3-one; 17-ol)</b>
<b>C01-C06</b>	<b>Pregn(3 or 4)enes (17-Y)</b>
<b>C01-C07</b>	<b>Pregn(1 or 2)enes (17-Y)</b>
<b>C01-C08</b>	<b>Pregn(5(10) or 1(10))enes (17-Y)</b>
<b>C01-C09</b>	<b>Androst(3 or 4)enes</b>
<b>C01-C10</b>	<b>Androst(1 or 2)enes</b>
<b>C01-C11</b>	<b>Androst(5(10) or 1(10))enes</b>
<b>C01-D</b>	<b>SATURATED RING'A'</b>
<b>C01-D01</b>	<b>Pregnanes (17-Y)</b> Including cardenolides and digoxin.
<b>C01-D02</b>	<b>Androstanes</b>
<b>C01-E</b>	<b>Steroids no structure</b>
<b>C01-E</b>	<b>Non-structural steroids other than steroid hormones e.g. plant sterols.</b> <i>Previous code(s) : C04-J02</i>

2010

## C02 ANTIBIOTICS (Vaccines pre-1994, see C14-S11 from 1994)

Antibiotics are coded using the first letter of the parent antibiotic (where this is known or given), for example, dihydro- streptomycin is coded C02-S, chlortetracycline C02-T and adriamycin(doxorubicin) C02-D. Un-named or general antibiotics are coded C02-Z. Vaccines, anti-toxins used as vaccines etc. are coded C02-V02 (before 1994) and C14-S11+ (from 1994). "C" and "P" antibiotics including cephalosporins and penicillins are subdivided further. All antibiotics are covered in this section even if they are not being used for the antibiotic properties.

C02-C	"C" ANTIBIOTICS, GENERAL	
C02-C	General	
C02-C01	"C" antibiotics other than cephalosporins	1977
C02-C02	Ring modified cephalosporins This code covers cephalosporins with no - (CH <sub>2</sub> )X (X=H or substituent) at 3-position, or two substituents at 7-position.	1977
C02-C03	Other 3 unsubstituted methyl, 7-monosubstituted cephalosporins	1977
C02-C04	Other 7-monosubstituted cephalosporins Including lactones.	1977
C02-P	"P" ANTIBIOTICS, GENERAL	
C02-P	General	
C02-P01	"P" antibiotics other than penicillins	1977
C02-P02	6-ACETAMIDOPENICILLINS, ALPHA-SUBSTITUTED BY N-ATOM	1977
C02-P03	Other 6-acetamidopenicillins	1977
C02-V	"V" ANTIBIOTICS, VACCINES (PRE-1994)	
C02-V	General	1965-1993
C02-V01	"V" Antibiotics	1986
C02-V02	Vaccines Excluding interferon. The code C12-A06 for antiviral is not additionally searchable.  <i>Now coded as: C14-S11+</i>	1986-1993
C02-V03	Interferon Not additionally searchable as polypeptide C04-C01:.  <i>Now coded as: C04-H05+</i>	1986-1993

## C03 VITAMINS

Each sub-group includes related compounds with similar activity, and pro-vitamins. The following compounds although having vitamin activity, are indexed under the appropriate chemical classification only: nicotinic acid (C07-D04+), pantothenic acid (C10-C04D), folic acid (C06-D09), choline (C10-A22), inositol (C10-E04A), biotin (C06-F03), p-amino-benzoic acid (C10-B02A), linoleic acid (C10-C04E2), and other unsaturated acids.

C03-A	A and carotenoids
C03-B	B1 (thiamin)
C03-C	B2 (riboflavin)
C03-D	B6 (pyridoxine)
C03-E	B12 and cobalamine
C03-F	C (ascorbic acid)
C03-G	D (calciferol)
C03-H	E and tocopherols
C03-J	Vitamin K This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only.
C03-K	Vitamin P and others This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only.
C03-L	General

## C04 NATURAL PRODUCTS (OR GENETICALLY ENGINEERED), POLYMERS

In general, natural products are coded according to their most descriptive feature (usually chemical), thus (i) milk is coded C04-B04K only, and not also C04-B04G (gland extract) or C04-B04L (mammalian extract); (ii) a polysaccharide obtained from a plant is coded C04-C02D only, and not also C04-A07F.

The following compounds and their derivatives are coded in C04 only, and not also according to their chemical structure:- tropanes, scopolamine, quinine, quinidine, lysergic acid, morphine, yohimbanes, xanthines, rotenone, pyrethroids, gibberellins, nucleosides and nucleotides, prostaglandins.

If a compound's structure or activity suggest it may be a natural product analogue it is coded in C04 and structurally.

To distinguish between specifically genetically engineered products and those prepared by other methods, the E suffix (engineered) is appended to codes introduced from 1994 in the appropriate format. For example interleukin 6 prepared by exogenous gene expression in a host is coded C04-H02G0E. All codes which have genetically engineered equivalents are marked #.

<b>C04-A</b>	<b>ALKALOIDS, PLANT EXTRACTS</b>	
<b>C04-A01</b>	<b>Belladonna</b> Including tropanes and scopolamines.	
<b>C04-A02</b>	<b>Cinchona</b> Including quin(id)ines.	
<b>C04-A03</b>	<b>Ergot</b> Including lysergic acid.	
<b>C04-A04</b>	<b>Opium</b> Including morphines and morphinans from 198601 but excluding apomorphine.	
<b>C04-A05</b>	<b>Rauwolfia</b> Including yohimbanes.	
<b>C04-A06</b>	<b>Xanthines</b> i.e. 2,6-dioxo-purines.	
<b>C04-A07A</b>	. <b>Other alkaloids</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only, e.g. strychnine is coded C06-E05, vincamine C06-D18.	1965
<b>C04-A07A1</b>	.. <b>Vinca alkaloids</b> Includes vincristine, vinblastine, vinorelbine and vindesine. <i>Previous code(s) : C06-D18</i>	2010
<b>C04-A07B</b>	. <b>Derris</b> e.g. rotenone.	1965

<b>C04-A07C</b>	. <b>Pyrethrins</b>	1965
<b>C04-A07D</b>	. <b>Peat, straw, cereal, seeds, bran, whole plants, juice</b> <i>Now coded as: C04-A08, C04-A09</i>	1965-1993
<b>C04-A07D1</b>	.. <b>Peat, humic acid</b> <i>Now coded as: C04-A09J</i>	1986-1993
<b>C04-A07D2</b>	.. <b>Seeds, husks from seeds, seed meal, cereal, grain</b> <i>Now coded as: C04-A09F</i>	1986-1993
<b>C04-A07D3</b>	.. <b>Wood shavings, bark, sawdust</b> <i>Now coded as: C04-A09G</i>	1986-1993
<b>C04-A07D4</b>	.. <b>Grass, straw, hay, plant stems, sap produced by pressing</b> Excluding C04-A07D3. <i>Now coded as: C04-A09H</i>	1986-1993
<b>C04-A07D5</b>	.. <b>Whole plants, leaves, whole mushrooms, flowers, plants produced by tissue culture</b> Excluding C04-A07D4. C11-A is also coded. <i>Now coded as: C04-A08+, C04-A09A, C04-A09B, C04-A09D</i>	1986-1993
<b>C04-A07E</b>	. <b>Glycosides</b> This code is applied only when a general term is used in a patent. Any specific compounds in this class are coded by structure only, e.g. glycyrrhizin is coded C07-A02B only.	1965
<b>C04-A07F</b>	. <b>Plant extract general</b> <i>Now coded as: C04-A10</i>	1965-1993
<b>C04-A07F1</b>	.. <b>Mushrooms, toadstools extracts</b> <i>Now coded as: C04-A10A</i>	1986-1993
<b>C04-A07F2</b>	.. <b>Other plant extracts</b> <i>Now coded as: C04-A10B+, C04-A09C</i>	1986-1993
<b>C04-A08#</b>	<b>Plant divisions and whole plants general and other</b> E suffix is appended to respective whole plant codes for transgenic plants. N.B. Plant cells and plant tissue are coded C04-F08. <i>Previous code(s): C04-A07D</i>	1994
<b>C04-A08A #</b>	. <b>Bryophytes</b> e.g. liverworts and mosses. <i>Previous code(s): C04-A07D5</i>	1994
<b>C04-A08B #</b>	. <b>Pteridophytes</b> e.g. ferns. <i>Previous code(s): C04-A07D5</i>	1994

C04-A08C #	. <b>Spermatophytes</b>	1994	C04-A10A #	. <b>Fungi</b>	
	<i>Previous code(s): C04-A07D5</i>			e.g. mushrooms, toadstools but not unicellular fungi.	1994
C04-A08C1 #	.. <b>Gymnosperms</b>	1994		<i>Previous code(s): C04-A07F1</i>	
	e.g. conifers.		C04-A10B #	. <b>Leaf extracts</b>	1994
	<i>Previous code(s): C04-A07D5</i>			<i>Previous code(s): C04-A07F2</i>	
C04-A08C2 #	.. <b>Angiosperms</b>	1994	C04-A10C #	. <b>Flower extracts</b>	1994
	e.g. flowering plants, grass, dicotyledons and monocotyledons.			e.g. and extracts from flower parts excluding pollen.	
	<i>Previous code(s): C04-A07D5</i>			<i>Previous code(s): C04-A07F2</i>	
C04-A08D #	. <b>Fungi</b>	1994	C04-A10D #	. <b>Pollen extract</b>	1994
	e.g. mushrooms, toadstools, but not unicellular or microscopic fungi.			<i>Previous code(s): C04-A07F, C04-B04C2</i>	
	<i>Previous code(s): C04-A07D5</i>		C04-A10F #	. <b>Root extracts</b>	1994
C04-A09 #	<b>Plant parts general and other</b>			<i>Previous code(s): C04-A07F2</i>	
	Plant parts derived from specific plant species are additionally coded in C04-A08.	1994	C04-A10G #	. <b>Seed, seed husk, seed meal, cereal, grain and nut extracts</b>	1994
	<i>Previous code(s): C04-A07D</i>			<i>Previous code(s): C04-A07F2</i>	
C04-A09A #	. <b>Leaves</b>	1994	C04-A10H #	. <b>Wood shaving, bark, sawdust extracts</b>	1994
	<i>Previous code(s): C04-A07D5</i>			<i>Previous code(s): C04-A07F2</i>	
C04-A09B #	. <b>Flowers and parts</b>	1994	C04-A10J #	. <b>Straw, hay, stem and sap extracts</b>	1994
	Excluding pollen.			<i>Previous code(s): C04-A07F</i>	
	<i>Previous code(s): C04-A07D5</i>		C04-A10K #	. <b>Fruit extract</b>	2006
C04-A09C #	. <b>Pollen</b>	1994		<i>Previous code(s): C04-A10</i>	
	<i>Previous code(s): C04-A07F, C04-B04C2</i>		<hr/>		
C04-A09D #	. <b>Roots</b>	1994	C04-B	<b>ANIMAL, MICROBIOLOGICAL AND GENERAL EXTRACTS</b>	
	<i>Previous code(s): C04-A07D5</i>		C04-B01A	. <b>Halogenated oils, waxes, etc.</b>	1965
C04-A09F #	. <b>Seeds, seed husks, seed meal, cereal, grain, nuts, bran</b>	1994	C04-B01B	. <b>Fats, lanolin, lipids, glycolipids</b>	1965
	<i>Previous code(s): C04-A07D2</i>		C04-B01C	. <b>Oils and waxes general</b>	
C04-A09G #	. <b>Wood, shavings, bark, sawdust</b>	1994	C04-B01C1	.. <b>Vegetable oils and waxes</b>	
	<i>Previous code(s): C04-A07D3</i>			e.g. sunflower oil, soy bean oil, cotton seed oil.	1986
C04-A09H #	. <b>Straw, hay, stems, sap</b>	1994	C04-B01C2	.. <b>Animal oils and waxes</b>	1986
	<i>Previous code(s): C04-A07D4</i>			e.g. spermaceti, cod liver oil.	
C04-A09J #	. <b>Peat, humic acid</b>	1994	C04-B01C3	.. <b>Mineral oils and waxes</b>	1986
	<i>Previous code(s): C04-A07D1</i>			e.g. vaseline, petroleum, liquid paraffin and synthetic oils.	
C04-A09K #	. <b>Fruit</b>	2006	C04-B01D	. <b>Other oil and wax derivatives</b>	
	<i>Previous codes(s): C04-A09</i>			Oils and waxes that are hydrogenated and/or modified by a polymer. May be applied in conjunction with codes from B04-B01C	
C04-A10 #	<b>Plant extracts general and other</b>	1994		<i>Previous code(s): C04-B01C</i>	
	Plant extracts derived from specific plant species are additionally coded in C04-A08. When the use of "Chinese herbal medicine" is claimed this code is applied.				2010
	<i>Previous code(s): C04-A07F</i>				

C04-B02A	. <b>Gibberellins</b>	1965	C04-B02D	. <b>Hormones and steroids general</b> The code C12-G04 or C04-C01 is not additionally applied with C04-B02D2 to C04-B02D4 unless a structure is given in the patent.	1965-1993
C04-B02B	. <b>Microorganisms general</b> <i>Now coded as: C04-F01</i>	1965-1993			
C04-B02B1	.. <b>Bacteria</b> e.g. Staphylococcus, Bacillus, Rickettsia. <i>Now coded as: C04-F10+</i>	1986-1993	C04-B02D1	.. <b>Steroidal hormones (no complete structure)</b> <i>Now coded as: C04-J02</i>	1986-1993
C04-B02B2	.. <b>Fungi</b> e.g. Candida, Aspergillus, Streptomyces. <i>Now coded as: C04-F09+</i>	1986-1993	C04-B02D2	.. <b>Pancreatic hormones</b> <i>Now coded as: C04-J03+</i>	1986-1993
C04-B02B3	.. <b>Algae</b> e.g. Spirogyra. <i>Now coded as: C04-F08</i>	1986-1993	C04-B02D3	.. <b>Thyroid and parathyroid hormone</b> e.g. calcitonin, thyrocalcitonin, parathyroid hormone and their derivatives. <i>Now coded as: C04-J04+</i>	1986-1993
C04-B02B4	.. <b>Viruses</b> <i>Now coded as: C04-F11</i>	1986-1993	C04-B02D4	.. <b>Pituitary gland hormones</b> e.g. neurohypophyseal, intermedin, chromophorotropic, melanocyte stimulating, melanophoric hormone, adreno-corticotrophic hormone (ACTH) corticotrophic, follicle stimulating (FSH), interstitial cell stimulating, prolactin, mammothrophin, somatotropin, thyroid stimulating, thyrotrophic, thyrotropin, vasopressin, chorionic gonadotropin, luteinising, growth and their derivatives. <i>Now coded as: C04-J05+</i>	1986-1993
C04-B02B5	.. <b>Others</b> e.g. Mycoplasma. <i>Now coded as: C04-F06, C04-F07, C04-F10A4</i>	1986-1993			
C04-B02C	. <b>Enzymes general</b> The code C04-B02C is used when the type of enzyme is unspecified. When specific enzymes are given then these should be coded in C04-B02C1 to C04-B02C7 in preference to C04-B02C. <i>Now coded as: C04-L01</i>	1965-1993	C04-B02E	. <b>Prostaglandins</b> From 197501 prostaglandins are coded C04-B02E only, and no longer according to their chemical structure. <i>Now coded as: C04-H03+</i>	1975-1993
C04-B02C1	.. <b>Coenzymes</b> <i>Now coded as: C04-L02</i>	1977-1993	C04-B03	<b>Nucleosides and nucleotides general</b> Coenzymes which are nucleotides are also coded C04-B02C1 (before 1994) or C04-L02 (from 1994). Nucleosides and nucleotides containing xanthine bases are coded C04-B03+ and not C04-A06.	1965
C04-B02C2	.. <b>Oxidoreductases</b> <i>Now coded as: C04-L03+</i>	1977-1993	C04-B03A	. <b>Nucleosides</b> e.g. Adenosine, guanosine, inosine, cytidine, uridine, thymidine. From 2005 chemically modified nucleosides are coded C04-B03D.	1986
C04-B02C3	.. <b>Hydrolases</b> e.g. chymotrypsin, trypsin, papain, fibrinolysin, streptokinase, streptodisinase, collagenase, plasmin, plasminogen. <i>Now coded as: C04-L05+</i>	1977-1993	C04-B03B	. <b>Nucleotides</b> e.g. Adenylic acid, cytidylic acid. From 2005 chemically modified nucleotides are coded C04-B03E.	1986
C04-B02C4	.. <b>Transferases</b> <i>Now coded as: C04-L04+</i>	1986-1993			
C04-B02C5	.. <b>Lyases</b> <i>Now coded as: C04-L06</i>	1986-1993			
C04-B02C6	.. <b>Isomerases</b> <i>Now coded as: C04-L07</i>	1986-1993			
C04-B02C7	.. <b>Ligases (synthetases)</b> <i>Now coded as: C04-L08</i>	1986-1993			

C04-B03C	. <b>Oligonucleotides</b> This code is applied whenever the term "Oligonucleotide" is used in a patent, or otherwise to chains of 3 to 6 nucleotide units.  <i>Previous code(s): C04-B04A1, C04-B03B</i>	1994	C04-B04C1	.. <b>Microbial antigen</b> When used as a vaccine then C02-V02 is coded (before 1994) or C14-S11+ (from 1994).	1986
C04-B03D	. <b>Modified nucleosides</b> E.g. C in ring, open chain structure.  <i>Previous code: C04-B03A</i>	2005	C04-B04C2	.. <b>Other antigens</b> Material which is antigenic is also coded.	1986
C04-B03E	. <b>Modified nucleotides</b> E.g. C in ring, open chain structure.  <i>Previous code: C04-B03B</i>	2005	C04-B04C3	.. <b>Microbial antibody</b>  <i>Now coded as: C04-G07, C04-G08, C04-G09</i>	1986-1993
C04-B04A	. <b>Proteins, nucleic acids, cells general</b> For antigens see C04-B04C.  <i>Now coded as: C04-E01, C04-F01, C04-N04, C04-N05, C04-N06</i>	1965-1993	C04-B04C4	.. <b>Anticancer antibody</b>  <i>Now coded as: C04-G05</i>	1986-1993
C04-B04A1	.. <b>DNA, vector DNA, RNA, nucleic acids.</b>  <i>Now coded as: C04-E02+, C04-E03+, C04-E04, C04-E05, C04-E06, C04-E07, C04-E08</i>	1986-1993	C04-B04C5	.. <b>Monoclonal antibody</b>  <i>Now coded as: C04-G21</i>	1986-1993
C04-B04A2	.. <b>Plant cells</b>  <i>Now coded as: C04-F08</i>	1986-1993	C04-B04C6	.. <b>Other antibody including immunoglobulin and haemagglutinin</b>  <i>Now coded as: C04-G02, C04-G03, C04-G04, C04-G06, C04-G10, C04-G20, C04-G22</i>	1986-1993
C04-B04A3	.. <b>Animal cells</b> For blood cells see C04-B04D, microbial cells see C04-B02B.  <i>Now coded as: C04-F02, C04-F05, C04-F07</i>	1986-1993	C04-B04C7	.. <b>Haptens</b> A substance which can combine with antibody but cannot itself initiate an immune response unless it is attached to a carrier molecule.  <i>Previous code(s): C04-B04C</i>	1994
C04-B04A4	.. <b>Proteins from plants and mushrooms</b> e.g. gluten.  <i>Now coded as: C04-N01+</i>	1986-1993	C04-B04C8	.. <b>Cancer antigen</b>	2005
C04-B04A5	.. <b>Proteins from microorganisms</b>  <i>Now coded as: C04-N03+</i>	1986-1993	C04-B04C9	.. <b>Allergen</b> An antigenic substance capable of producing immediate type hypersensitivity (i.e. an allergic reaction). The specific substance which is antigenic (e.g. C04-A08C2 + C04-A09C for pollen).	2005
C04-B04A6	.. <b>Proteins from animals or insects</b> e.g. gelatin, egg white, glycoproteins, gamma globulins, silk.  <i>Now coded as: C04-N02+</i>	1986-1993	C04-B04D	. <b>Blood and derivatives general</b>	1965
C04-B04B	. <b>Animal excrements general</b>	1965	C04-B04D1	.. <b>Blood cells and derivatives</b> Including leucocytes, erythrocytes, lymphocytes). These are not coded under C04-B04A3.  <i>Now coded as: C04-F04</i>	1986-1993
C04-B04B1	.. <b>Urine</b>  <i>Previous code(s): C04-B04B</i>	1994	C04-B04D2	.. <b>Blood proteins</b> Excluding blood factors. e.g. serum albumin, haemoglobin, fibrinogen (prior to 198601 see also C04-B04A). From 1994 all clotting factors including fibrin and fibrinogen are coded under C04-H19.	1986
C04-B04B2	.. <b>Faeces</b>  <i>Previous code(s): C04-B04B</i>	1994			
C04-B04C	. <b>Antigens, general Antibody (pre-1994)</b>  <i>Previous code(s): C04-G01</i>	1965			

C04-B04D3	.. <b>Blood factors</b> e.g. clotting factors, thrombin (see also C04-B02C3 for prothrombin, fibrinogen). 1986-1993 <i>Now coded as: C04-H01, C04-H13, C04-H14, C04-H15, C04-H19</i>	C04-C01	<b>Polypeptides general</b> Polypeptides containing four or more peptide units are coded from C04-C01A to C04-C01G only, tripeptides are coded both C04-C01A and according to their chemical structure (in C05 to C10) and dipeptides are coded according to their chemical structures only. Cystine represents two amino acid residues. Polypeptide/protein sequences are further coded under C04-N.
C04-B04D4	.. <b>Blood serum, plasma</b> Excluding C04-B04D2/3. 1986	C04-C01A	. 3 to 5 alpha amino acid residues 1986
C04-B04D5	.. <b>Whole blood</b> Excluding C04-B04D1 to C04-B04D4. 1986	C04-C01B	. 6 to 10 alpha amino acid residues 1986
C04-B04E	. <b>Bone, marrow, nails, skin, teeth</b> Includes, horn extract, shell extract, hair and shell powder, and oyster shell. 1965	C04-C01C	. 11 to 15 alpha amino acid residues 1986
C04-B04F	. <b>Enzyme inhibitors</b> 1965-1993 <i>Now coded as: C04-M01</i>	C04-C01D	. 16 to 20 alpha amino acid residues 1986
C04-B04G	. <b>Gland extracts</b> Including snake venom, but excluding hormones. 1965	C04-C01E	. 21 to 25 alpha amino acid residues 1986
C04-B04H	. <b>Heart, kidney, liver, placenta, nerve, brain extracts</b> 1965	C04-C01F	. 26 to 30 alpha amino acid residues 1986
C04-B04J	. <b>Metabolic factors</b> 1965-1993 <i>Now coded as: C04-H01, C04-H04+, C04-H06+, C04-H08, C04-H09, C04-H10, C04-H12, C04-H13, C04-H14, C04-H16, C04-H17, C04-H18</i>	C04-C01G	. 31 or more alpha amino acid residues This code also includes proteins of defined amino acid sequence. 1986
C04-B04K	. <b>Milk</b> Including derivatives. 1965	C04-C01H	. <b>Modified and/or cyclic peptides</b> Includes analogs. Should be applied in conjunction with a length code selected from C04-C01A to C04-C01G. Not used for peptides cyclised purely by disulphide bridge formation. 2005
C04-B04L	. <b>Other mammalian extracts</b> This code is used for mammalian extracts only (from 1994). For whole mammals see C04-P. 1965	C04-C02	<b>Polysaccharides general</b> These must contain at least 7 sugar residues in sequence.
C04-B04M	. <b>Other non-mammalian extracts</b> This code is used for non-mammalian extracts only (from 1994). For whole animals see C04-P. 1965	C04-C02A	. <b>Cellulose and derivatives</b> 1986
C04-C	<b>POLYMERS</b> The generic codes C04-C01, C04-C02 and C04-C03 are only used for general disclosures which would otherwise require several specific codes. Therefore when a specific code is searched, the corresponding generic code must also be searched.	C04-C02A1	.. <b>Unmodified cellulose</b> 1986
		C04-C02A2	.. <b>Cellulose ethers</b> e.g. carboxymethylcellulose. 1986
		C04-C02A3	.. <b>Cellulose esters</b> e.g. cellulose acetate. 1986
		C04-C02B	. <b>Starch, dextrin and derivatives</b> 1986
		C04-C02B1	.. <b>Cyclodextrin and derivatives</b> 1986
		C04-C02B2	.. <b>Unmodified starch</b> 1986
		C04-C02B3	.. <b>Modified starch</b> Includes derivatives of starch such as carboxymethylstarch. 2010 <i>Previous code(s): B04-C02B</i>

C04-C02C	. Dextran	1986
C04-C02D	. Polysaccharides from plant Excluding cellulose, starch, dextran. Including pectin, plant gums, alginates, agar.	1986
C04-C02E	. Polysaccharides from animal, bird, reptile, or insect	1986
C04-C02E1	.. Heparin (optionally modified)	1986
C04-C02E2	.. Chondroitin (optionally modified)	1986
C04-C02E3	.. Chitin (optionally modified) C04-C02F may be also searched if chitin is obtained from fungal source.	1986
C04-C02F	. Polysaccharides from microbial sources Polysaccharide which is modified microbiologically can be also searched under the code for the original polysaccharide.	1986
C04-C02V	. Lipopolysaccharide <i>Previous code(s): C04-C02, C04-B01B</i>	1994
C04-C02X	. Oligosaccharides This code is applied whenever the term oligosaccharide is used in a patent, or otherwise to chains of 3 to 6 sugar units. Tetrahydropyran(furan) are not coded unless they are ring modified.	1994
C04-C03	Polymers general	
C04-C03A	. Poly N-vinyl-lactams	1975
C04-C03B	. Other addition	1975
C04-C03C	. Polyethers Including thioethers and sulphides.	1975
C04-C03D	. Natural, other condensation <i>Previous code(s): C04-C03D</i>	1994
C04-C03E	. Dendrimers	2002
C04-C03F	. Silicones <i>Previous code: C04-C03D</i>	2005

C04-D	OTHER NATURAL PRODUCTS	
C04-D01	Sugars (mono- or disaccharides) This code is used for sugars of undefined structure only, or when the sugar is an essential ingredient of a pharmaceutical composition.	
C04-D02	Others	
C04-D03	Biomass <i>Previous code(s): C04-A07D, C04-A07F, C04-B02B, C04-B04B, C04-B04L, C04-B04M</i>	1994
C04-E	NUCLEIC ACIDS E suffix is not appended to the codes in this section.	1994
C04-E01	Nucleic acid general and other This code covers only non-specific or general nucleic acid. It is not used to replace three or more codes for specific forms of DNA/RNA which are all coded individually in section C04-E02 to C04-E08. For example, if a patent claims: 1) a DNA construct coding for 5-HT receptor, 2) a vector, 3) a nucleic acid probe, 4) antisense oligonucleotide, the codes are: C04-B03C, C04-E03D, C04-E05, C04-E06, C04-E08.	1994
	<i>Previous code(s): C04-B04A1</i>	
C04-E02	Altered DNA coding sequences This code includes engineered, recombinant constructs, chimeric genes, heterologous genes, fusion genes, allelic variants, mutant allele and RNA transcripts.	1994
	<i>Previous code(s): C04-B04A1</i>	
C04-E02A	. Coding for antibodies	1994
	<i>Previous code(s): C04-B04A1</i>	
C04-E02B	. Coding for modifiers of cell function and growth	1994
	<i>Previous code(s): C04-B04A1</i>	
C04-E02C	. Coding for hormones	1994
	<i>Previous code(s): C04-B04A1</i>	
C04-E02D	. Coding for receptors	1994
	<i>Previous code(s): C04-B04A1</i>	
C04-E02E	. Coding for enzymes	1994
	<i>Previous code(s): C04-B04A1</i>	
C04-E02F	. Coding for other protein/ polypeptide	1994
	<i>Previous code(s): C04-B04A1</i>	
C04-E02G	. Oncogene	2002



C04-E02H	. Encoding fusion protein	2002	C04-E07	<b>Other non-coding sequences</b> This code includes ribozyme, ribosomal, transfer, mitochondrial.	1994
C04-E02J	. Encoding antigens	2007		<i>Previous code(s): C04-B04A1</i>	
C04-E02K	. Encoding nucleic acid	2009	C04-E07A	. <b>Ribozyme</b> An RNA molecule that has catalytic activity.	2005
C04-E03	<b>Other DNA coding sequences</b> These codes cover wild type genes and their fragments, and include their RNA transcripts.	1994	C04-E07B	. <b>DNAzyme</b> A DNA molecule that has catalytic activity.	2005
	<i>Previous code(s): C04-B04A1</i>		C04-E07C	. <b>siRNA (short interfering RNA)</b> Double stranded short RNA molecules that bind to RNA and target them for degradation and/or destruction.	2005
C04-E03A	. Coding for antibodies	1994	C04-E07D	. <b>miRNA</b> Micro RNA.	2005
C04-E03B	. Coding for modifiers of cell function and growth	1994	C04-E07E	. <b>shRNA (small hairpin RNA)</b>	2006
	<i>Previous code(s): C04-B04A1</i>		C04-E07F	. <b>Aptamer</b>	2007
C04-E03C	. Coding for hormones	1994	C04-E08	<b>Vectors, plasmids, cosmids, transposons</b> Viral vector is coded under virus.	1994
	<i>Previous code(s): C04-B04A1</i>			<i>Previous code(s): C04-B04A1</i>	
C04-E03D	. Coding for receptors	1994	C04-E09	<b>Single Nucleotide Polymorphism (SNP)</b>	2002
	<i>Previous code(s): C04-B04A1</i>		C04-E10	<b>Peptide nucleic acid</b>	2002
C04-E03E	. Coding for enzymes	1994	C04-E11	<b>Other analog nucleic acid</b>	2002
	<i>Previous code(s): C04-B04A1</i>		C04-E12	<b>Reporter gene/marker gene</b>	2002
C04-E03F	. Coding for other protein/ polypeptide	1994			
	<i>Previous code(s): C04-B04A1</i>		C04-F	<b>CELLS, MICROORGANISMS, TRANSFORMANTS, HOSTS</b> E suffix is appended to codes for cells which are products of genetic manipulation, but not to naturally occurring mutant microbial strains, cell fusion products or chemical mutagenesis products.	1994
C04-E03G	. Oncogene	2002			
C04-E03H	. Encoding fusion protein	2002-2008	C04-F01 #	<b>Cells, microorganisms, transformants, hosts, cell lines, tissue general</b>	1994
C04-E03J	. Encoding antigens	2007		<i>Previous code(s): C04-B02B, C04-B04A, C04-B04D1</i>	
	<i>Previous code(s): C04-E03F</i>		C04-F02 #	<b>Mammal (including human)</b>	1994
C04-E03K	. Encoding nucleic acid	2009		<i>Previous code(s): C04-B04A3</i>	
C04-E04	<b>Promoters, enhancers, regulatory sequences</b>	1994	C04-F02A #	. <b>Cancer cells/Carcinoma</b>	2002
	<i>Previous code(s): C04-B04A1</i>		C04-F02B #	. <b>Stem cells</b> Cell that can replicate indefinitely and differentiate into other cells.	2005
C04-E05	<b>Primers, probes</b> Probes are coded in conjunction with C12-K04A codes, e.g. a probe for detecting cancer is coded C04-E05 and C12-K04A1.	1994			
	<i>Previous code(s): C04-B04A1</i>				
C04-E06	<b>Antisense sequences</b> Excluding antisense probes.	1994			
	<i>Previous code(s): C04-B04A1</i>				

C04-F03 #	<b>Sperm, ova (germ cells)</b>	1994	C04-F07A #	. Insect	2002
	<i>Previous code(s): C04-B02D</i>		C04-F07B #	. Amphibian	2002
C04-F04 #	<b>Blood cells (general)</b>		C04-F07C #	. Reptile	2002
	This code covers non-specific blood cells or when three or more specific types of blood cells are mentioned.	1994	C04-F07D #	. Fish	2002
	<i>Previous code(s): C04-B04D1</i>		C04-F07E #	. Avian cell	2006
C04-F04A #	. <b>Red blood cells</b>	2006		<i>Previous code(s): C04-F07</i>	
	<i>Previous code(s): C04-F04</i>		C04-F08 #	<b>Plant/algae</b>	1994
C04-F04B #	. <b>White blood cells (general)</b>			<i>Previous code(s): C04-B04A2, C04-B02B3</i>	
	This code is used when non-specific white blood cells are mentioned or when three or more white blood cell types are mentioned.	2006	C04-F08A #	. <b>Algae</b>	
	<i>Previous code(s): C04-F04</i>		C04-F09 #	<b>Yeast/fungus general and other</b>	1994
C04-F04B1 #	.. <b>Lymphocytes</b>	2006		<i>Previous code(s): C04-B02B2</i>	
	<i>Previous code(s): C04-F04</i>		C04-F09A #	. <b>Aspergillus</b>	
C04-F04B1A #	... <b>T-lymphocytes</b>	2006		e.g. A. nidulans, A. fumigatus, A. flavus, A. niger, A. oryzae.	1994
	<i>Previous code(s): C04-F04</i>			<i>Previous code(s): C04-B02B2</i>	
C04-F04B1B #	... <b>B-lymphocytes</b>	2006	C04-F09B #	. <b>Neurospora</b>	
	<i>Previous code(s): C04-F04</i>			e.g. N. crassa.	1994
C04-F04B2 #	.. <b>Other white blood cells</b>	2006		<i>Previous code(s): C04-B02B2</i>	
	<i>Previous code(s): C04-F04</i>		C04-F09C #	. <b>Saccharomyces</b>	
C04-F04B2A #	... <b>Dendritic cells</b>	2006		e.g. S. pombe, S. cerevisiae (brewer's yeast)	1994
	<i>Previous code(s): C04-F04</i>			<i>Previous code(s): C04-B02B2</i>	
C04-F04B2B #	... <b>Macrophages</b>	2006	C04-F09D #	. <b>Pichia pastoris yeast</b>	2005
	<i>Previous code(s): C04-F04</i>		C04-F10 #	<b>Bacteria general</b>	1994
C04-F04B2C #	... <b>Neutrophil</b>	2006		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-F04</i>		C04-F10A #	. <b>Gram-negative genera, general and other</b>	1994
C04-F04B2D #	... <b>Others</b>	2006		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-F04</i>		C04-F10A1 #	.. <b>Bordetella</b>	1994
C04-F05 #	<b>Hybridoma</b>	1994		e.g. B. pertussis.	
	<i>Previous code(s): C04-B04A3</i>			<i>Previous code(s): C04-B02B1</i>	
C04-F05A #	. <b>Chimeric &amp; fused cells</b>		C04-F10A2 #	.. <b>Borrelia</b>	1994
	Cells comprising or formed from components derived from two separate cell types, not including hybridomas coded under C04-F05.	2005		<i>Previous code(s): C04-B02B1</i>	
C04-F06 #	<b>Protozoa</b>	1994	C04-F10A3 #	.. <b>Escherichia</b>	1994
	<i>Previous code(s): C04-B02B5</i>			e.g. E. coli.	
C04-F07	<b>#Other animal</b>	1994		<i>Previous code(s): C04-B02B1</i>	
	<i>Previous code(s): C04-B04A3</i>		C04-F10A4 #	.. <b>Mycoplasma</b>	
				e.g. M. pneumoniae, M. mycoides.	1994
				<i>Previous code(s): C04-B02B1</i>	

C04-F10A5 #	.. <b>Neisseria</b> e.g. N. gonorrhoeae, N. meningitides. <i>Previous code(s): C04-B02B1</i>	1994	C04-F11B #	. <b>RNA virus general</b> Virus that infects foreign RNA into host cell, where the DNA sequence is then transcribed and viral protein produced.	2005
C04-F10A6 #	.. <b>Pseudomonas</b> e.g. P. aeruginosa, P. mallei. <i>Previous code(s): C04-B02B1</i>	1994	C04-F11B1 #	.. <b>Retrovirus</b>	2007
C04-F10A7 #	.. <b>Rickettsia</b> e.g. R. prowazekii. <i>Previous code(s): C04-B02B1</i>	1994	C04-F12	<b>Minicells &amp; organelles</b> E.g. mitochondria and any sub-cellular particle. No E suffixed code for the recombinant form exists.	2005
C04-F10A8 #	.. <b>Salmonella</b> e.g. S. typhi. <i>Previous code(s): C04-B02B1</i>	1994	C04-F13	<b>Platelets</b>	2010
C04-F10A9 #	.. <b>Vibrio</b> e.g. V. cholerae, V. parahaemolyticus. <i>Previous code(s): C04-B02B1</i>	1994	C04-G	<b>ANTIBODY DEFINED IN TERMS OF ANTIGEN</b> E suffix is appended only when the antibody is produced by genetic methods beyond standard hybridoma technology.	1994
C04-F10B #	. <b>Gram-positive genera, general and other</b> <i>Previous code(s): C04-B02B1</i>	1994	C04-G01	<b>#General and other</b> <i>Previous code(s): C04-B04C</i>	1994
C04-F10B1 #	.. <b>Bacillus</b> e.g. B. subtilis. <i>Previous code(s): C04-B02B1</i>	1994	C04-G01A	. <b>Chimeric antibody</b> An antibody genetically engineered to contain the variable fragment from one species fused to the constant region from another species.	2005
C04-F10B2 #	.. <b>Mycobacteria</b> e.g. M. tuberculosis, M. bovis, M. leprae, M. phlei. <i>Previous code(s): C04-B02B1</i>	1994	C04-G01B #	. <b>Human antibody</b> An antibody produced from a single human cell line.	2005
C04-F10B3 #	.. <b>Staphylococcus</b> e.g. S. aureus, S. epidermidis. <i>Previous code(s): C04-B02B1</i>	1994	C04-G01C	. <b>Humanised antibody</b> An antibody from a single cell line genetically engineered to contain around 90% human protein, reducing the likelihood of an immune response.	2005
C04-F10B4 #	.. <b>Streptococcus</b> e.g. S. pyogenes, S. faecalis. <i>Previous code(s): C04-B02B1</i>	1994	C04-G01D #	. <b>Murine antibody</b> An antibody produced from a single mouse cell line.	2005
C04-F10B5 #	.. <b>Streptomyces</b> e.g. S. griseus, S. scabies. <i>Previous code(s): C04-B02B1</i>	1994	C04-G02 #	<b>Antimodifier of cell function and growth, antihormone antibody</b> <i>Previous code(s): C04-B04C6</i>	1994
C04-F11	<b>#Viruses</b> Including bacteriophage lambda and viral vectors. <i>Previous code(s): C04-B02B4</i>	1994	C04-G03	<b>#Antienzyme antibody</b> <i>Previous code(s): C04-B04C6</i>	1994
C04-F11A #	. <b>DNA virus general</b> Virus that infects foreign DNA into host cell, which then produces viral protein.	2005	C04-G04 #	<b>Antireceptor antibody</b> <i>Previous code(s): C04-B04C6</i>	1994
C04-F11A1 #	.. <b>Adenovirus</b> Includes adeno-associated virus.	2007	C04-G05	<b>#Anticancer cell antibody</b> <i>Previous code(s): C04-B04C4</i>	1994
			C04-G06 #	<b>Antiblood cells antibody</b> e.g. antibody to T-cell, B-cell. <i>Previous code(s): C04-B04C6</i>	1994

C04-G07 #	<b>Antibacteria antibody</b> <i>Previous code(s): C04-B04C3</i>	1994	C04-H01	<b>#Modifier of cell function and growth general and other</b> This code is applied when either a generic term such as cytokine, is used or when a specific substance does not fit into any category covered by C04-H02 to C04-H20B. It also includes blood factors general and other. <i>Previous code(s): C02-V03, C04-B02C, C04-B02E, C04-B04A, C04-B04D, C04-C01</i>	1994
C04-G08 #	<b>Antivirus antibody</b> <i>Previous code(s): C04-B04C3</i>	1994	C04-H02 #	<b>Interleukins general and other</b> <i>Previous code(s): C04-C01G</i>	1994
C04-G09 #	<b>Antimicroorganisms (other) antibody</b> <i>Previous code(s): C04-B04C3</i>	1994	C04-H02A #	. <b>Interleukin 1</b> <i>Previous code(s): C04-C01G</i>	1994
C04-G10 #	<b>Antiplant antibody</b> <i>Previous code(s): C04-B04C6</i>	1994	C04-H02B #	. <b>Interleukin 2</b> <i>Previous code(s): C04-C01G</i>	1994
C04-G11 #	<b>Antibody binding to another antibody</b>	2006	C04-H02C #	. <b>Interleukin 3 (Multi-CSF)</b> <i>Previous code(s): C04-C01G</i>	1994
C04-G20 #	<b>Catalytic antibodies</b> Including abzyme This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another C04-G code. <i>Previous code(s): C04-B04C6</i>	1994	C04-H02D #	. <b>Interleukin 4</b> <i>Previous code(s): C04-C01G</i>	1994
C04-G21 #	<b>Monoclonal antibody</b> This code defines antibodies other than in terms of their antigen and may be applied in conjunction with another C04-G code. <i>Previous code(s): C04-B04C5</i>	1994	C04-H02F #	. <b>Interleukin 5</b> <i>Previous code(s): C04-C01G</i>	1994
C04-G22 #	<b>Polyclonal antibodies</b> This is another definition of antibodies than in terms of antigen. This code is applied in conjunction with one of C04-G01 to C04-G20. <i>Previous code(s): C04-B04C6</i>	1994	C04-H02G #	. <b>Interleukin 6</b> <i>Previous code(s): C04-C01G</i>	1994
C04-G23 #	<b>Antibody fragments</b>	2006	C04-H02H #	. <b>Interleukin 7</b> <i>Previous code(s): C04-C01G</i>	1994
C04-G24 #	<b>Bispecific antibodies</b>	2006	C04-H02J #	. <b>Interleukin 8 (NAP "Neutrophil Activating Protein")</b> <i>Previous code(s): C04-C01G, C04-B04A</i>	1994
C04-G25 #	<b>Anti-prion protein antibodies</b>		C04-H02K #	. <b>Interleukin 9</b> <i>Previous code(s): C04-C01G</i>	1994
C04-H	<b>MODIFIERS OF CELL FUNCTION AND GROWTH</b> The term "modifier of cell function and growth" includes all biological response modifiers (immune system mediators) such as: prostaglandins, cytokines, monokines, interleukines, lymphokines (a subset of interleukines), CSF's, interferons, the growth factors, somatomedins and blood factors. All of these are proteins except of prostaglandins. The E suffix is appended to codes to indicate that molecules are produced by exogenous gene expression in host cells as well as derivatives modified at the genetic level.	1994	C04-H02L #	. <b>Interleukin 10</b> <i>Previous code(s): C04-C01G</i>	1994
			C04-H02M #	. <b>Interleukin 11</b> <i>Previous code(s): C04-C01G</i>	1994
			C04-H02N #	. <b>Interleukin 12</b> <i>Previous code(s): C04-C01G</i>	1994
			C04-H02P #	. <b>Interleukin 13</b> <i>Previous code(s): C04-C01G</i>	1994
			C04-H02Q #	. <b>Interleukins 14-20</b> <i>Previous code(s): C04-H02</i>	2006
			C04-H02R #	. <b>Interleukins 21-25</b> <i>Previous code(s): C04-H02</i>	2006

C04-H02S #	. Interleukins 26-30	2006	C04-H05C #	. Interferon gamma	1994
	<i>Previous code(s): C04-H02</i>			<i>Previous code(s): C02-V03</i>	
C04-H02T #	. Interleukins 31-35	2006	C04-H06 #	Growth factors general and other	1994
	<i>Previous code(s): C04-H02</i>			<i>Previous code(s): C04-B04J</i>	
C04-H03	Prostaglandins general and other	1994	C04-H06A #	. EGF (Epidermal Growth Factor)	1994
	<i>Previous code(s): C04-B02E</i>			<i>Previous code(s): C04-B04J</i>	
C04-H03A	. Prostaglandin E1	1994	C04-H06B #	. PDGF (Platelet Derived Growth Factor)	1994
	<i>Previous code(s): C04-B02E</i>			<i>Previous code(s): C04-B04J</i>	
C04-H03B	. Prostaglandin E2	1994	C04-H06C #	. MDGF (Macrophage Derived Growth Factor)	1994
	<i>Previous code(s): C04-B02E</i>			<i>Previous code(s): C04-B04J</i>	
C04-H03C	. Prostaglandin F2 alpha	1994	C04-H06D #	. NGF (Nerve Growth Factor)	1994
	<i>Previous code(s): C04-B02E</i>			<i>Previous code(s): C04-B04J</i>	
C04-H03D	. Prostacyclin (Prostaglandin I2)	1994	C04-H06F #	. TGF (Transforming Growth Factor)	1994
	<i>Previous code(s): C04-B02E, C06-A02, C10-B02D, C10-C04D</i>			<i>Previous code(s): C04-B04J</i>	
C04-H03F	. Leukotrienes	1994	C04-H06G #	. FGF (Fibroblast Growth Factor)	1994
	<i>Previous code(s): C04-B02E, C07-A03, C10-B02D, C10-C04D</i>			<i>Previous code(s): C04-B04J</i>	
C04-H03G	. Thromboxanes	1994	C04-H06H #	. Somatomedins, sulphation factors This code includes IGF's (Insulin-like growth factors).	1994
	<i>Previous code(s): C04-B02E, C06-A02, C07-A02</i>			<i>Previous code(s): C04-B04J</i>	
C04-H04 #	CSF's (Colony Stimulating Factors) General and other	1994	C04-H06J #	. PGF (Prostatic Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>			<i>Previous code(s): C04-B04J</i>	
C04-H04A #	. G-CSF (Granulocyte Colony Stimulating Factor)	1994	C04-H06K #	. HGF (Hepatocyte Growth Factor)	1994
	<i>Previous code(s): C04-B04J</i>			<i>Previous code(s): C04-B04J</i>	
C04-H04B #	. M-CSF (Macrophage Colony Stimulating Factor)	1994	C04-H06L #	. Bone morphogenetic protein	2002
	<i>Previous code(s): C04-B04J</i>		C04-H06M #	. Vascular endothelial growth factor Also known as VEGF.	2006
C04-H04C #	. GM-CSF (Granulocyte Macrophage Colony Stimulating Factor)	1994		<i>Previous code(s): C04-H06</i>	
	<i>Previous code(s): C04-B04J</i>		C04-H07 #	Erythropoietin (Epo), thrombopoietin	1994
C04-H04D #	. MEG-CSF (Megakaryocyte Colony Stimulating Factor)	1994		<i>Previous code(s): C04-B04A6, C04-B02D, thrombopoietin C04-H06 (pre-2010)</i>	
	<i>Previous code(s): C04-B04J</i>		C04-H08 #	TNF (Tumor Necrosis Factor)	1994
C04-H05 #	Interferons General and other	1994		<i>Previous code(s): C04-B04J</i>	
	<i>Previous code(s): C02-V03</i>		C04-H09 #	LIF (Leukemia inhibitory factor)	1994
C04-H05A #	. Interferon alpha	1994		<i>Previous code(s): C04-B04J</i>	
	<i>Previous code(s): C02-V03</i>		C04-H10	#Mullerian inhibitory substance (MIS)	1994
C04-H05B #	. Interferon beta	1994		<i>Previous code(s): C04-B04J</i>	
	<i>Previous code(s): C02-V03</i>				

<b>C04-H11 #</b>	<b>MIP (Macrophage inflammatory protein)</b> 1994 <i>Previous code(s): C04-B04A6</i>	<b>C04-H20 #</b>	<b>Adhesion and Motor molecules general and other</b> e.g. LFA (lymphocyte function associated antigen), ICAM/VCAM (intercellular/vascular cell adhesion molecule). 1994 <i>Previous code(s): C04-B04A6, C04-B04C2</i>
<b>C04-H12 #</b>	<b>Megakaryocyte potentiator</b> 1994 <i>Previous code(s): C04-B04A6, C04-B04J</i>	<b>C04-H20A #</b>	<b>. Fibronectin</b> 1994 <i>Previous code(s): C04-B04A6</i>
<b>C04-H13 #</b>	<b>Lymphotoxin (LT)</b> 1994 <i>Previous code(s): C04-B04A6, C04-B04D3, C04-B04J</i>	<b>C04-H20B #</b>	<b>. Vitronectin</b> 1994 <i>Previous code(s): C04-B04A6</i>
<b>C04-H14 #</b>	<b>PAF (Platelet activating factor)</b> 1994 <i>Previous code(s): C04-B04D3, C04-B04J</i>	<b>C04-H20C #</b>	<b>. Muscle proteins general</b> 2002
<b>C04-H15 #</b>	<b>PA (Plasminogen Activator)</b> 1994 <i>Previous code(s): C04-B02C3, C04-B04D3</i>	<b>C04-H20C1 #</b>	<b>.. Actin</b> 2002
<b>C04-H16 #</b>	<b>SCF (Stem Cell Factor)</b> 1994 <i>Previous code(s): C04-B04J</i>	<b>C04-H20C2 #</b>	<b>.. Myosin</b> 2002
<b>C04-H17</b>	<b>#T-Activin (TA, Thymic factor)</b> 1994 <i>Previous code(s): C04-B04A6, C04-B04J</i>	<b>C04-H20C3 #</b>	<b>.. Tropomyosin</b> 2002
<b>C04-H18 #</b>	<b>Activin A (EDF "Erythroid differentiation factor")</b> 1994 <i>Previous code(s): C04-B04A6, C04-B04J</i>	<b>C04-H21</b>	<b>#Integrins</b> 2002
<b>C04-H19 #</b>	<b>Clotting factors</b> Including: thrombin (fibrinogenase, thrombase), prothrombin (thrombinogen, Factor II), fibrin, fibrinogen (Factor I), Factor III (tissue thromboplastin, tissue factor), Factor V (proaccelerin, accelerator globulin (AcG), labile factor), Factor VII (proconvertin, thrombokinas, autoprothrombin I, serum prothrombin conversion accelerator (SPCA), stable factor), Factor VIII (antihaemophilic globulin (AHG), antihaemophilic factor A), Factor IX (plasma thromboplastin component (PTC), autoprothrombin II, Christmas factor, antihaemophilic factor B), Factor X (stuart factor, autoprothrombin C, Prower factor, Stuart-Prower factor, thrombokinas), Factor XI (plasma thromboplastin antecedent (PTA), antihaemophilic factor C), Factor XII (Hageman factor, glass contact, activation factor), Factor XIII (fibrin stabilising factor (FSF), fibrinase, Laki-Lorand factor (LLF), transglutaminase) and the platelet factors 1, 2, 3 & 4 etc. N.B. Factor IV, which, is calcium, is coded C05-A01B. The clot-dissolving proteolytic enzyme plasmin (fibrinolysin) and plasminogen are coded C04-L05C. 1994 <i>Previous code(s): C04-B02C3, C04-B02D2, C04-B04D3, C04-C02B3</i>	<b>C04-J</b>	<b>HORMONES</b> 1994
		<b>C04-J01 #</b>	<b>Hormones general and other</b> Hormones which are not covered by the C04-J03, C04-J04 and C04-J05 general sub-headings and are not represented in C04-J06 to C04-J18 are coded here. e.g. generic terms such as hypothalamic, adrenergic, neuropeptide, gastrointestinal and insect hormones. 1994 <i>Previous code(s): C04-B02D</i>
		<b>C04-J02</b>	<b>Steroidal Hormones (No Structure)</b> Includes all steroids where no structure is given. 1994 <i>Previous code(s): C04-B02D1</i>
		<b>C04-J03 #</b>	<b>Pancreatic hormone general and other</b> Including pancreatic polypeptide. 1994 <i>Previous code(s): C04-B02D2</i>
		<b>C04-J03A #</b>	<b>. Insulin</b> 1994 <i>Previous code(s): C04-B02D2</i>
		<b>C04-J03B #</b>	<b>. Glucagon</b> 1994 <i>Previous code(s): C04-B02D2</i>
		<b>C04-J04 #</b>	<b>Thyroid and parathyroid general and other</b> N.B.thyroxine is coded C10-B2E. 1994 <i>Previous code(s): C04-B02D3</i>
		<b>C04-J04A #</b>	<b>. Calcitonin</b> 1994 <i>Previous code(s): C04-B02D3</i>

C04-J04B #	. Parathyroid hormone	1994	C04-J10 #	Somatostatin	1994
	Previous code(s): C04-B02D3			Previous code(s): C04-B02D	
C04-J05 #	Pituitary gland hormones general and other		C04-J11 #	Endorphins/enkephalins	1994
	Including prolactin and human growth hormone.			Previous code(s): C04-B02D	
	Previous code(s): C04-B02D4	1994	C04-J12 #	Gastrin/Secretin/Motilin	1994
				Previous code(s): C04-B02D	
C04-J05A #	. Oxytocin	1994	C04-J13 #	Cholecystokinin (CCK-PZ, Pancreozymin)	1994
	Previous code(s): C04-B02D4			Previous code(s): C04-B02D	
C04-J05B #	. ADH (Antidiuretic hormone)		C04-J14 #	Tachykinins (Substance p = SP)	1994
	Also known as vasopressin.	1994		Previous code(s): C04-B02D	
	Previous code(s): C04-B02D4		C04-J15 #	Neurotensin	1994
C04-J05D #	. ACTH (Adrenocorticotrophic hormone "adrenocorticotropin")	1994		Previous code(s): C04-B02D	
	Previous code(s): C04-B02D4		C04-J16 #	Ecdysone	1994
				Previous code(s): C04-B02D	
C04-J05F #	. TSH (Thyroid Stimulating Hormone)	1994	C04-J17 #	Juvenile Hormone	1994
	Previous code(s): C04-B02D4			Previous code(s): C04-B02D	
C04-J05G #	. MSH (Melanocyte stimulating hormone)	1994	C04-J18 #	Angiotensin	1994
	Previous code(s): C04-B02D4			Previous code(s): C04-B02D	
C04-J05H #	. Gonadotropins		C04-J19 #	Melanin concentrating hormone	2005
	Including FSH (=follicle stimulating hormone), LH (=luteinising hormone), HMG (=human menopausal gonadotropin).	1994		Also known as MCH, a 19 amino acid cyclic neuropeptide that is expressed mainly in the hypothalamus.	
	Previous code(s): C04-B02D4			Previous code(s): C04-B02D, C04-J01	
C04-J05J #	. STH (Somatotrophic growth hormone)	1994	C04-K	RECEPTORS	1994
	Previous code(s): C04-B02D4		C04-K01 #	Receptor general and other	
C04-J06 #	. CRH (Corticotropin-releasing hormone)			Including orphan G-protein coupled receptors CD4:(1) is coded here when described simply as a receptor.(2) is coded C04-K01U when described as a viral receptor.	1994
	Hormones covered by C04-J06 to C04-J18 are specific and other than steroidal, pancreatic, thyroid, parathyroid, and pituitary gland hormones.	1994		Previous code(s): C04-B04A6	
	Previous code(s): C04-B02D		C04-K01A #	. Parasympathetic receptor (Cholinergic receptor)	1994
				Previous code(s): C04-B04A6	
C04-J07 #	GN-RH (Gonadotropin-releasing hormone) (LH-RH=Luteinising hormone-releasing hormone)	1994	C04-K01B #	. Sympathetic receptor (Adrenergic receptor, alpha and beta)	1994
	Previous code(s): C04-B02D			Previous code(s): C04-B04A6	
C04-J08 #	TRH (Thyrotropin-releasing hormone)	1994	C04-K01C #	. Dopamine receptor	1994
	Previous code(s): C04-B02D			Previous code(s): C04-B04A6	
C04-J09 #	GH-RH, GH-RF, SRF (Growth hormone-releasing hormone/factor, somatotropin-releasing factor)	1994	C04-K01D #	. Serotonin (5HT) receptor	1994
	Previous code(s): C04-B02D			Previous code(s): C04-B04A6	

C04-K01F #	. Histamine (H1,H2) receptor	1994	C04-K01V #	. Other cell, microbe or antigen receptor	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B04A6</i>	
C04-K01G #	. Interleukin receptor	1994	C04-K01W #	. Antibody receptor	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B04A6</i>	
C04-K01H #	. Prostaglandin/leukotriene/thromboxane receptor	1994	C04-K01X #	. Non-steroidal nuclear (hormone) receptor	2002
	<i>Previous code(s): C04-B04A6</i>				
C04-K01J #	. Growth factor receptor	1994	C04-K01X1 #	.. Peroxisome proliferator activated receptor (Orphan receptor) Also known as PPAR.	2005
	<i>Previous code(s): C04-B04A6</i>				
C04-K01K #	. Other modifier of cell function and growth receptor	1994	C04-K01X2 #	. Thyroid receptor	2005
	<i>Previous code(s): C04-B04A6</i>				
C04-K01L #	. Steroid receptor e.g. mineralocorticoid, corticosteroid, oestrogen receptor.	1994	C04-K01Y #	. G-protein coupled receptor	2002
	<i>Previous code(s): C04-B04A6</i>		C04-K01Y1 #	.. Melanin concentrating hormone receptor	2005
C04-K01L1 #	.. Androgen receptors	2005	C04-L	<b>ENZYMES</b> Enzyme nomenclature is based whenever possible on the classification defined by the Commission on Biochemical Nomenclature.	1994
C04-K01L2 #	.. Oestrogen receptors	2005			
C04-K01L3 #	.. Corticosteroid receptors	2005	C04-L01	<b>#Enzymes, catalytic proteins general and other</b>	1994
C04-K01L4 #	.. Other steroid receptors	2005		<i>Previous code(s): C04-B02C</i>	
C04-K01M #	. Insulin receptor	1994	C04-L02 #	<b>Coenzymes</b>	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B02C1</i>	
C04-K01N #	. Angiotensin receptor	1994	C04-L03 #	<b>Oxidoreductases general and other</b>	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B02C2</i>	
C04-K01P #	. Other hormone receptor	1994	C04-L03A #	. Oxidases	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B02C2</i>	
C04-K01Q #	. Lipoprotein (LDL, HDL) receptor	1994	C04-L03B #	. Peroxidases	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B02C2</i>	
C04-K01R #	. Blood cell or blood cell antigen receptor	1994	C04-L03C #	. Oxygenases Including cytochrome P450	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B02C2</i>	
C04-K01S #	. Cancer cell or cancer cell antigen receptor	1994	C04-L03D #	. Dehydrogenases, reductases	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B02C2</i>	
C04-K01T #	. Bacterial or bacterial antigen receptor	1994	C04-L03E #	. Lipoxigenases	2002
	<i>Previous code(s): C04-B04A6</i>				
C04-K01U #	. Viral or viral antigen receptor	1994	C04-L04 #	<b>Transferases general and other</b>	1994
	<i>Previous code(s): C04-B04A6</i>			<i>Previous code(s): C04-B02C4</i>	
			C04-L04A #	. DNA/RNA polymerases	1994
				<i>Previous code(s): C04-B02C4</i>	



C04-L04B #	. <b>Reverse transcriptase</b> <i>Previous code(s): C04-B02C4</i>	1994	C04-N01 #	<b>Plant protein/polypeptide (No sequence)</b> <i>Previous code(s): C04-B04A4,C04-C01</i>	1994
C04-L04C #	. <b>Kinases</b> Any of several enzymes that catalyse the transfer of a phosphate group from ATP to a second substrate. <i>Previous code(s): C04-L04</i>	2005	C04-N01A #	. <b>Complete amino acid sequence given</b> Codes C04-C01 to C04-C01G are also applied. <i>Previous code(s): C04-B04A4</i>	1994
C04-L05 #	<b>Hydrolases general and other</b> <i>Previous code(s): C04-B02C3</i>	1994	C04-N01B #	. <b>Fragments of amino acid sequence given</b> <i>Previous code(s): C04-B04A4</i>	1994
C04-L05A #	. <b>Esterases</b> Including lipases, nucleases, restriction enzymes, sulphatases, phosphatases. <i>Previous code(s): C04-B02C3</i>	1994	C04-N02 #	<b>Animal protein/polypeptide (No sequence)</b> <i>Previous code(s): C04-B04A6,C04-C01</i>	1994
C04-L05A1 #	.. <b>Phosphodiesterases</b>	2005	C04-N02A #	. <b>Complete amino acid sequence given</b> Codes C04-C01 to C04-C01G are also applied. <i>Previous code(s): C04-B04A6</i>	1994
C04-L05B #	. <b>Glycosidases</b> Including amylases, cellulases, lactases. <i>Previous code(s): C04-B02C3</i>	1994	C04-N02B #	. <b>Fragments of amino acid sequence given</b> <i>Previous code(s): C04-B04A6</i>	1994
C04-L05C #	. <b>Proteases, peptide hydrolases</b> Including chymotrypsin, trypsin, papain, fibrinolysin, collagenases, elastases. <i>Previous code(s): C04-B02C3</i>	1994	C04-N03 #	<b>Microorganism protein/polypeptide (No sequence)</b> <i>Previous code(s): C04-B04A5,C04-C01</i>	1994
C04-L05C1 #	.. <b>Metalloproteases</b>	2005	C04-N03A #	. <b>Complete amino acid sequence given</b> Codes C04-C01 to C04-C01G are also applied. <i>Previous code(s): C04-B04A5</i>	1994
C04-L06 #	<b>Lyases</b> Including adenyl cyclases, (de)carboxylases, aldolases, dehydratases. <i>Previous code(s): C04-B02C5</i>	1994	C04-N03B #	. <b>Fragments of amino acid sequence given</b> <i>Previous code(s): C04-B04A5</i>	1994
C04-L07 #	<b>Isomerases</b> Including racemases, tautomerases, epimerases, mutases. <i>Previous code(s): C04-B02C6</i>	1994	C04-N03C #	. <b>Bacterial protein/polypeptide with complete amino acid sequence</b> Codes C04-C01 to C04-C01G are also applied.	2006
C04-L08 #	<b>Ligases</b> Including synthetases, some carboxylases, aromatase. Excludes synthase. <i>Previous code(s): C04-B02C7</i>	1994	C04-N03D #	. <b>Bacterial protein/polypeptide with fragments of amino acid sequence</b>	2006
C04-L09 #	<b>Zymogen and other enzyme precursors</b>	2002	C04-N03E #	. <b>Viral protein/polypeptide with complete amino acid sequence</b> Codes C04-C01 to C04-C01G are also applied.	2006
C04-M	<b>ENZYME INHIBITORS</b>	1994	C04-N03F #	. <b>Viral protein/polypeptide with fragments of amino acid sequence</b>	2006
C04-M01	<b>#Enzyme inhibitors general and other</b> This code is used for enzyme inhibitors with no structure only. <i>Previous code(s): C04-B04F</i>	1994			
C04-N	<b>OTHER PROTEIN/POLYPEPTIDE</b> This code is used only when a substance is not better defined in preceding sections, e.g. a protein with adenyl cyclase activity is coded C04-L06 only.	1994			

C04-N03G #	. Fungal protein/polypeptide with complete amino acid sequence Codes C04-C01 to C04-C01G are also applied.	2006	C04-N13	Signalling pathway proteins	2006
C04-N03H #	. Fungal protein/polypeptide with fragments of amino acid sequence	2006	C04-N14#	Peptidomimetics	
C04-N04 #	Protein/polypeptide of undefined origin (No sequence) <i>Previous code(s): C04-B04A, C04-C01</i>	1994	C04-N15	Crystalline form Used in conjunction with other specific protein codes for protein crystals.	2010
C04-N04A #	. Complete amino acid sequence given Codes C04-C01 to C04-C01G are also applied. <i>Previous code(s): C04-B04A</i>	1994	C04-P	<b>WHOLE ANIMALS</b> E suffix is appended to respective whole animal codes for transgenic animals.	1994
C04-N04B #	. Fragments of amino acid sequence given <i>Previous code(s): C04-B04A</i>	1994	C04-P01 #	Whole animals general and other <i>Previous code(s): C04-B04L, C04-B04M</i>	1994
C04-N05 #	<b>Lipoprotein</b> HDL (high density lipoproteins), LDL (low density lipoproteins). <i>Previous code(s): C04-B04A, C04-B01B</i>	1994	C04-P01A #	. Laboratory experimental animals e.g. mice, rats. <i>Previous code(s): C04-B04L, C04-B04M</i>	1994
C04-N06 #	<b>Glycoprotein, peptidoglycan and cytoskeletal proteins</b> <i>Previous code(s): C04-B04A</i>	1994	C04-P01B #	. Farm animals e.g. cows, sheep. <i>Previous code(s): C04-B04L, C04-B04M</i>	1994
C04-N07 #	<b>Ion channel protein</b>	2002	C04-P01C #	. Arthropods <i>Previous code(s): C04-B04M</i>	1994
C04-N08	<b>Fusion protein</b>	2002			
C04-N09 #	<b>Molecular chaperones and chaperonins</b> E.g. Heat shock proteins (HSP). <i>Previous code(s): C04-N01, C04-N02, C04-N04</i>	2005			
C04-N10	<b>Prions</b> Protein pathogen responsible for e.g. Creutzfeldt-Jakob disease and kuru in humans and scrapie in sheep. <i>Previous code: C04-N02</i>	2005			
C04-N11 #	<b>Zinc finger proteins</b> Specialized proteins that contain a bound zinc ion or are capable of binding a zinc ion, and are associated with DNA binding proteins. <i>Previous code(s): C04-N01, C04-N02, C04-N03, C04-N04</i>	2005			
C04-N12 #	<b>Transcription factors general</b> A protein that binds DNA at a specific promoter or enhancer region where it activates and regulates transcription. <i>Previous code(s): C04-N01, C04-N02, C04-N03, C04-N04</i>	2005			

## C05 MISCELLANEOUS

This section covers all inorganic compounds, and also all organic compounds containing elements other than H, C, N, O, S and halogens (other than the exceptions given in the notes).

The order of priorities for this group is generally C01AB02C > A01A > A01B C01C08 (e.g. sodium phosphate is only coded as C05-B02A3). The exception to the above is when the anion (of the lower priority) of a metal salt is an important factor in the invention, e.g. effervescent compositions containing sodium bicarbonate are coded C05-C04 and not C05-A01B. Sub-group A elements (i.e. metals) when used as salts of organic compounds, are only coded in C05 if the metal is an essential limiting factor of the invention. Otherwise the compound is coded under the parent compound (i.e. acid, alcohol, etc.).

<b>C05-A</b>	<b>METALS AND COMPOUNDS</b>	
<b>C05-A01</b>	<b>Group 1, 2, 3 general</b>	1965
<b>C05-A01A</b>	. <b>Potassium</b> This code is not used for organic compounds unless potassium is an essential pharmaceutically active limiting factor of the invention (e.g. K salts used for treating hypokalaemia).	1965
<b>C05-A01B</b>	. <b>Group 1a, 2a, 3a excluding K, B, Ra</b> This code is not used for organic compounds unless the metal is an essential pharmaceutically active limiting factor of the invention.	1965
<b>C05-A02</b>	<b>Group 4a, 5a excluding C, Si, N, P, As</b>	
<b>C05-A03</b>	<b>Transition metals, lanthanides general</b> The generic code C05-A03 is only used for general disclosures which would otherwise require several specific codes. Thus when a specific code is searched the corresponding generic code must also be searched.	
<b>C05-A03A</b>	. <b>Mn, Fe, Cu, Zn, Hg</b>	1975
<b>C05-A03A1</b>	.. <b>Mn compounds</b>	2005
<b>C05-A03A2</b>	.. <b>Fe compounds</b>	2005
<b>C05-A03A3</b>	.. <b>Cu compounds</b>	2005
<b>C05-A03A4</b>	.. <b>Zn compounds</b>	2005
<b>C05-A03A5</b>	.. <b>Hg compounds</b>	2005
<b>C05-A03B</b>	. <b>Others</b>	1975
<b>C05-A03B1</b>	.. <b>Titanium</b>	
<b>C05-A03B2</b>	.. <b>Silver</b>	

<b>C05-A03B3</b>	.. <b>Platinum</b> <i>Previous code(s): C05-A03B</i>	2010
<b>C05-A04</b>	<b>Radioactive elements and specific isotopes</b>	
<b>C05-A04A</b>	. <b>Deuterium</b>	2007
<b>C05-A04B</b>	. <b>Tritium</b>	2007
<b>C05-A04C</b>	. <b>Carbon isotopes</b> Excludes Carbon-12	2007
<b>C05-A04D</b>	. <b>Iodine isotopes</b> Excludes Iodine-127	2007
<b>C05-A04E</b>	. <b>Other radioactive isotope</b>	2007
<b>C05-A04F</b>	. <b>Other non-radioactive isotope</b>	2007
<b>C05-B</b>	<b>LESS COMMON NON-METALS AND COMPOUNDS</b>	
<b>C05-B01A</b>	. <b>B organic</b>	1965
<b>C05-B01B</b>	. <b>Si organic</b>	1965
<b>C05-B01C</b>	. <b>As organic</b>	1965
<b>C05-B01D</b>	. <b>Se, Te, organic</b>	1965
<b>C05-B01E</b>	. <b>P-C bond heterocyclic</b>	1965
<b>C05-B01F</b>	. <b>P-C bond aromatic</b>	1965
<b>C05-B01G</b>	. <b>P-C bond (cyclo)aliphatic</b>	1965
<b>C05-B01H</b>	. <b>P-Hal bond organic</b>	1965
<b>C05-B01J</b>	. <b>P-N bond heterocyclic</b>	1965
<b>C05-B01K</b>	. <b>P-N bond aromatic</b>	1965
<b>C05-B01L</b>	. <b>P-N bond (cyclo)aliphatic</b>	1965
<b>C05-B01M</b>	. <b>P-O(S) bond heterocyclic</b>	1965
<b>C05-B01N</b>	. <b>P-O(S) bond aromatic</b>	1965
<b>C05-B01P</b>	. <b>P-O(S) bond (cyclo)aliphatic</b>	1965
<b>C05-B02A</b>	. <b>P and inorganic P compounds general</b> The generic code C05-B02A is only used for general disclosures which would otherwise require several specific codes. Thus when a specific code is searched the corresponding generic code must also be searched.	1965

C05-B02A1	.. P acids production	1975
C05-B02A2	.. Ammonium salts of P acids This code is used also for mixtures containing only ammonium salts of P acids.	1975
C05-B02A3	.. P and inorganic P compounds	1975
C05-B02A4	.. Fertiliser mixt. contg. P acid (or salt) and N-source For mixtures of ammonium salts of phosphoric acid only see C05-B02A2.	1975
C05-B02A5	.. Fertiliser mixt. contg. P acid (or salt) and non-N-source	1975
C05-B02B	. As inorganic	1965
C05-B02C	. Si, Se, Te, B inorganic, inert gases	1965
C05-C	<b>MORE COMMON NON-METALS, COMPOUNDS</b>	
C05-C01	N (ammonia) inorganic After CPI Week 197501 ammonium salts of phosphorus acids or fertiliser mixtures containing a phosphorus acid (or salts) and also ammonia (or salt thereof), have been coded C05-B02A4 respectively.	1965
C05-C02	N (nitrate) inorganic	1965
C05-C03	N (others) inorganic	1965
C05-C04	CO <sub>2</sub> , inorganic (bi)(thio)carbonates	1965
C05-C05	Inorganic S acids, S oxides	1965
C05-C06	Elemental C or S	1965
C05-C07	Inorganic compounds containing halogen This code is not used for organic compounds unless a halogen is a member of a heterocyclic ring, or forms a part of an anion, and is an essential pharmaceutically active limiting factor of the invention (e.g. HF salts of amines used as dental agents).	1965
C05-C08	Others	1965
C05-U	<b>FULLERENE TYPE CAGE STRUCTURES</b>	1994
C05-U	General	1994
C05-U01	Other than carbon only	1994
C05-U02	Carbon only	1994

C05-U03	Carbon only nanotubes	2005
C05-U04	Carbon plus heteroatom nanotubes	2005
C05-U05	Other carbon containing 3-D structures	2005
C05-U05A	. Nanotubes, nanorods, nanohorns	2010
C05-U05B	. Nanofilms	2010
C05-U05C	. Nanostructures other than those covered by C05-U05A and C05-U05B	2010
C05-U06	Inorganic nanostructures	2005
C05-V	<b>METALLOCENES</b>	
C05-V	<b>Metallocenes</b> e.g. ferrocenes, titanocenes, zirconocenes	2010
	<i>Previous code(s): C05+</i>	

## C06 HETEROCYCLIC FUSED RING

This section is used for fused heterocyclic rings containing C and any of O, S and N. If any other elements are present, the structure is coded in C05. The specific rings listed in this section include all reduced derivatives and tautomers, unless specifically excluded. Specific ring systems present in a disclosed and claimed compound are individually coded, but if there is an essential fused heterocyclic ring and either an optional or a variable fused heterocyclic ring, only the essential ring is coded and neither the variable ring nor C06-H.

C06-A	SOLE HETERO(S) OXYGEN
C06-A01	1-Benzo-(furan or pyran)
C06-A02	Others with 2 rings (e.g. phenolphthalein)
C06-A03	With more than 2 rings
C06-A03A	. Taxols, taxels e.g. paclitaxel, docetaxel. Must contain an oxetane ring fused to the taxane skeleton

2006, 2010

C06-B	SOLE HETERO(S) SULPHUR
C06-B01	With 2 rings
C06-B02	With more than 2 rings
C06-C	SOLE HETEROS O AND S
C06-C	General
C06-D	SOLE HETERO(S) NITROGEN
C06-D01	Indole
C06-D02	Quinoline
C06-D03	Isoindole, isoquinoline
C06-D04	Others with 2 rings and one N
C06-D05	With 2 rings (5+6 membered) and two N
C06-D06	With 2 rings (both 6 membered) and two N
C06-D07	Others with 2 rings and two N
C06-D08	With 2 rings and 3 N
C06-D09	With 2 rings and 4 N
C06-D10	With 2 rings and >4 N
C06-D11	Acridine
C06-D12	Dibenzo [b,f] azepine
C06-D13	Others with 3 rings and one N
C06-D14	Phenazine
C06-D15	Carbolines, phenanthrolines
C06-D16	Others with 3 rings and two N
C06-D17	With 3 rings and >2N
C06-D18	With more than 3 rings

C06-E	SOLE HETEROS O AND N
C06-E01	Benzoxazole, benzisoxazoles
C06-E02	Benzoxazines
C06-E03	Others with 2 rings
C06-E04	Phenoxazine
C06-E05	Others with more than 2 rings
C06-F	SOLE HETEROS S AND N
C06-F01	Benzothiazole, benzisothiazoles
C06-F02	Benzothiazines
C06-F03	Others with 2 rings
C06-F04	Phenothiazine
C06-F05	Others with more than 2 rings
C06-G	SOLE HETEROS O AND S AND N
C06-G	General
C06-H	FUSED RING, GENERAL This code is used for general disclosures when either unspecified fused heterocyclic ring is present or several specific rings are present. Therefore when a specific code is searched, the corresponding generic code must also be searched.
C06-H	General

## C07 HETEROCYCLICS, MONONUCLEAR

This section is used for monoheterocyclic rings containing C and any of O, S and N. If any other elements are present, the structure is coded in C05 only. Likewise when a fused heterocyclic ring is present, the structure is coded in C06 only. The specific rings listed in this section include all reduced derivatives and tautomers, unless specifically excluded. Specific ring systems present in a disclosed and claimed compound are individually coded, but if there is an essential monoheterocyclic ring and either an optional or a variable monoheterocyclic ring, only the essential ring is coded and neither the variable ring nor C07-H.

C07-A	SOLE HETERO(S) OXYGEN	
C07-A01	Furan excluding tetrahydrofuran	
C07-A02	Tetrahydro-(furan or pyran) general	
C07-A02A	. Tetrahydrofuran	1994
	Previous code(s): C07-A02	
C07-A02B	. Tetrahydropyran	1994
	Previous code(s): C07-A02	
C07-A03	Others with one O	
	Including pyran.	
C07-A04	With more than one O	
C07-B	SOLE HETERO(S) SULPHUR	
C07-B01	Thiophene	
C07-B02	Others with one S	
C07-B03	Others with more than one S	
C07-C	SOLE HETEROS O AND S	
C07-C	General	
C07-D	SOLE HETERO(S) NITROGEN	
C07-D01	With one N, 3 or 4 membered	
C07-D02	Pyrrole	
	Excluding pyrrolidine.	
C07-D03	Pyrrolidine	
C07-D04	Pyridine general	
	Excluding piperidine.	
C07-D04A	. (Hydro)pyridinium N(V)	1986
C07-D04B	. Pyridine (optionally substituted) production	1986
C07-D04C	. Pyridine (optionally substituted) use	1986
C07-D04D	. Di- and tetrahydropyridine (optionally substituted)	1986
C07-D05	Piperidine	

C07-D06	With one N, > 6-membered
C07-D07	With > one N, less than 5-membered
C07-D08	Pyrazole
C07-D09	Imidazole
C07-D10	Pyr(id)azine
	Excluding piperazine.
C07-D11	Piperazine
C07-D12	Pyrimidine
C07-D13	Others with more than one N

C07-E	SOLE HETEROS O AND N
C07-E01	With one O and one N < 6-membered
C07-E02	Oxazines
	Excluding morpholine.
C07-E03	Morpholine
C07-E04	Others

C07-F	SOLE HETEROS S AND N
C07-F01	With one S and one N < 6-membered
C07-F02	Thiazines
C07-F03	Others

C07-G	SOLE HETEROS O AND S AND N
C07-G	General

C07-H	MONONUCLEAR HETEROCYCLICS GENERAL
	This code is used for general disclosure when either unspecified monoheterocyclic ring system is present in the molecule, or several rings are present. Therefore the generic code must be searched every time when a specific code is searched.

C07-H	Heterocyclic ring general
C07-H01	Ring linked directly to -C(=O)-, -C(=S)-, -C(=N)- or -CN
	1975
C07-H02	Ring linked directly to heteroatom
	1975
C07-H03	Ring linked via aliphatic chain only to heteroatom, -C(=O)-, -C(=S)-, -C(=N)- or CN
	1975
C07-H04	Other rings
	1975

**C08 AROMATICS, POLYCARBOCYCLIC**

This section covers compounds containing more than two carbocyclic rings fused together, at least one of which is 6-membered with 3 conjugated double bonds (or quinone derivs. thereof). Mono- and bicyclo-aromatics are coded in C10.

C08-A	At least 6 rings fused
C08-B	Five rings fused
C08-C	4 RINGS FUSED
C08-C01	6:6:6:6 carbon atoms per ring
C08-C02	Others
C08-D	3 RINGS FUSED
C08-D01	6 :6:7 carbon atoms per ring
C08-D02	6:6:6 carbon atoms per ring
C08-D03	Others
C08-H	FUSED AROMATIC SYSTEM GENERAL <small>2002</small>

**C09 ALICYCLICS, POLYCARBOCYCLIC**

This section covers compounds containing more than two carbocyclic rings fused together, other than aromatics (see C08). Mono- and bicyclic compounds are coded in C10.

C09-A	At least 6 rings fused
C09-B	Five rings fused
C09-C	4 Rings Fused
C09-C01	6:6:6:6 carbon atoms per ring
C09-C02	Others
C09-D	3 RINGS FUSED
C09-D01	6:6:6 carbon atoms per ring
C09-D02	Others
C09-H	FUSED ALICYCLIC SYSTEM GENERAL <small>2002</small>

**C10 AROMATICS AND CYCLOALIPHATICS (MONO AND BICYCLIC ONLY), ALIPHATICS**

In this section compounds are coded according to the type of functional group present. Only one code is assigned to a specific compound according to the rule of priorities: A > B > C, and 1 > 2 > 3 etc. Thus C10-A01 is the highest, and C10-J02 the lowest priority code. For acidic or basic salts see the parent compounds (i.e. amines, acids, etc.). For all cyclic derivatives of the groups listed in section C10 see C01 to C07. For groups not listed in section C10, e.g. semicarbazone, the highest priority segment is coded, in this case as C10-A13D.

C10-A	<b>RARER CHEMICAL GROUPS GENERAL</b> Oxygen atoms may be replaced by S, where applicable.
C10-A01	<b>Sulphonium, iodonium, free radicals, carbonium, oxonium, etc.</b>
C10-A02	<b>Halogen bonded to Hal, N or O</b> For halides of acids other than carboxylic (C10-A25) or those containing N-X or O-X (X = halogen) bond (C10-A02) the parent acid is coded. For example a sulphenyl halide is coded C10-A09C, a chloroformate C10-A11B and a carbamoyl halide C10-A12C.
C10-A03	<b>Nitrogen oxide, nitroso</b>
C10-A04	<b>Peroxide, polysulphide</b>
C10-A05	<b>Nitrate, nitrite</b>
C10-A06	<b>Quinone</b> Including all derivatives except those with higher priority.
C10-A07	<b>Sugars (general)</b> Only 4 or more carbon monosaccharides with a free keto or aldehyde group together with their oxidised, reduced and substituted derivatives code here. Sugars in which at least one of the aldehyde / keto groups have been converted into an acetal / ketal (i.e. exist in cyclic form) code in C07-A02.
C10-A07A	<b>Unmodified sugars</b> Includes ethers and esters thereof. 7 or more carbon sugars are coded C10-A07E.
C10-A07B	<b>Sugar alcohols</b> Includes ether and ester derivatives. Derivatives in which one or two of the hydroxy groups have been replaced by N additionally code C10-A07D. Derivatives in which one or two of the hydroxy groups have been replaced by atoms other than H or N (including 7 or more carbon sugar alcohols) additionally code C10-A07E. Inositol is coded C10-E04A.

2005

2005

C10-A07C	<ul style="list-style-type: none"> <li><b>Sugar acids</b> Includes ether and ester derivatives. Derivatives in which one or two of the hydroxy groups have been replaced by N additionally code C10-A07D. Derivatives in which one or two of the hydroxy groups have been replaced by atoms other than H or N (including 7 or more carbon sugar acids) additionally code C10-A07E. Uronic acids which contain a free aldehyde or keto group (even if represented as a cyclic hemi-acetal in the source material) code here but those in which the hemi-acetal OH has been converted into an ether or ester code in C07-A02. Lactones of sugar alcohols code in the C07-A section.</li> </ul>	C10-A09C	<ul style="list-style-type: none"> <li><b>Other S acids</b> Including all derivatives except those with higher priority.</li> </ul>
	2005		1965
C10-A07D	<ul style="list-style-type: none"> <li><b>Sugar amines</b> Used for 4 or more carbon monosaccharides with a free aldehyde or keto group (even if represented as a cyclic hemi-acetal in the source material) or an oxidised or reduced derivative thereof in which one or two of the O atoms have been replaced by nitrogen. If the sugar contains 7 or more carbons it additionally codes C10-A07E. If the sugar is an oxidised sugar it additionally codes C10-A07C. If the sugar is a reduced sugar it additionally codes C10-A07B.</li> </ul>	C10-A10	<b>Sulphone, sulphoxide</b>
	2005	C10-A11A	<ul style="list-style-type: none"> <li><b>Thiocarbonic acid</b> Including all derivatives except those with higher priority.</li> </ul>
			1965
		C10-A11B	<ul style="list-style-type: none"> <li><b>Carbonic acid</b> Includes haloformates.</li> </ul>
			1965
		C10-A12A	<ul style="list-style-type: none"> <li><b>Dithiocarbamic acid</b> Including all derivatives except those with higher priority.</li> </ul>
			1965
		C10-A12B	<b>Monothiocarbamic acid</b> Including all derivatives except those with higher priority.
			1965
		C10-A12C	<ul style="list-style-type: none"> <li><b>Carbamic acid</b> Including all derivatives except those with higher priorities.</li> </ul>
			1965
		C10-A13A	<ul style="list-style-type: none"> <li><b>(Iso)thiourea</b></li> </ul>
			1965
		C10-A13B	<ul style="list-style-type: none"> <li><b>(Iso)urea general</b> Generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, the corresponding generic code must also be searched.</li> </ul>
			1965
		C10-A13C	<ul style="list-style-type: none"> <li><b>Unsubstituted urea</b></li> </ul>
			1975
		C10-A13D	<ul style="list-style-type: none"> <li><b>Other (iso)urea compounds</b></li> </ul>
			1975
		C10-A14	<b>(Iso)cyanate, thiocyanide</b>
		C10-A15	<b>(Iso)cyanide</b>
		C10-A16	<b>Azide, azo diazo(nium)</b>
		C10-A17	<b>Biguanide, guanidine, amidine</b>
		C10-A18	<b>Hydroxylamine</b> Hydroxylamine itself is coded C05-C03.
	2005	C10-A19	<b>Hydrazine</b> Hydrazine itself is coded C05-C03.
C10-A08	<b>Amide of sulphur acid</b>	C10-A20	<b>Imine</b>
C10-A09A	<ul style="list-style-type: none"> <li><b>(Thio)Sulphuric(ous) acid</b> Including all derivatives except those with higher priority.</li> </ul>	C10-A21	<b>Quaternary ammonium (bis or poly)</b> When a patent claims amines and their quaternary ammonium salts, only the amines are coded. Two searches must be made in order to obtain all relevant quaternary ammonium compounds.
	1965		
C10-A09B	<ul style="list-style-type: none"> <li><b>Sulphonic acid general</b> Including all derivatives except for those with higher priority.</li> </ul>	C10-A22	<b>Quaternary ammonium (mono)</b>
	1965	C10-A23	<b>Acetal, ketal</b>



C10-A24	Imide		
C10-A25	Acid anhydride, halide (carboxylic only) For halides of acids other than carboxylic (C10-A25) or those containing N-X or O-X (X = halogen) bond (C10-A02) the parent acid is coded. For example a sulphenyl halide is coded C10-A09C, a chloroformate C10-A11B and a carbamoyl halide C10-A12C.		
C10-B	AMINES		
C10-B01	Polyamine general		1986
C10-B01A	. Polyamines, at least 1 amine aromatic		1965
C10-B01B	. Polyamines with no amine aromatic		1965
C10-B02	Amino-acid, -ester or -amide general		1986
C10-B02A	. Amino-acid, -ester or -amide (amine aromatic)		1965
C10-B02B	. Amino-acid, -ester or amide (amine not aromatic) general		1965
C10-B02C	. Mixtures containing at least 3 naturally occurring amino acids		1975
C10-B02D	. Sulphur-containing amino acids Including amides and esters of the acid group(s).		1975
C10-B02E	. Ring-containing amino acid with free acid group or salt		1975
C10-B02F	. Ring-containing amino amide		1975
C10-B02G	. Ring-containing amino ester		1975
C10-B02H	. Optionally esterified or etherified hydroxy amino acids Including amides and esters of the acid group(s).		1975
C10-B02J	. Other amino acids Including amides and esters of the acid group(s).		1975
C10-B03	Amino-phenol, -alcohol or ether general Oxygen atoms may be replaced by S, where applicable.		1986
C10-B03A	. Amino-phenol, -alcohol or -ether (amine aromatic)		1971
C10-B03B	. Amino-phenol, -alcohol or -ether (amine not aromatic)		1971
C10-B04	Amine mono, general		1986
C10-B04A	. Other aromatic amines		1971
C10-B04B	. Other non-aromatic amines		1971
C10-C	CARBOXYLIC ACIDS		
C10-C01	Thiocarboxylic acid		
C10-C02	Polycarboxylic acid		
C10-C03	Carboxylic acid and phenol present Or phenolic ester or ether. Oxygen atoms may be replaced by S.		
C10-C04	Other carboxylic acids general		
C10-C04A	. Carboxylic acid and cycloaliphatic system present		1975
C10-C04B	. Hydroxy, aldehyde or keto carboxylic acid and carbocyclic aromatic ring system present Including esters and ethers (of hydroxy) and thio derivatives.		1975
C10-C04C	. Other carboxylic acid and carbocyclic aromatic ring system present		1975
C10-C04D	. Acyclic hydroxy Including acyclic ether (of hydroxy) and thio derivatives.		1975
C10-C04E	. General acyclic monocarboxylic acid General acyclic monocarboxylic acid (not substituted by hydroxy, aldehyde, keto or their ethers and/or thio derivatives)		1975
C10-C04E1	.. Substituted acyclic monocarboxylic acid		2006
C10-C04E2	.. Polyunsaturated fatty acid		2006
C10-C04E3	.. Monounsaturated fatty acid		2006
C10-C04E4	.. Other unsaturated monocarboxylic acid		2006
C10-C04E5	.. Saturated fatty acid		2006
C10-C04E6	.. Other saturated monocarboxylic acid		2006

**C10-D ALDEHYDES AND CARBOXYLIC AMIDES**  
 Oxygen atoms may be replaced by S, where applicable. These generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, corresponding generic codes must also be searched.

C10-D01 Aldehydes

C10-D02 Carboxylic amide, thio

C10-D03 Carboxylic amides

**C10-E HYDROXY COMPOUNDS**  
 Oxygen atoms may be replaced by S, where applicable

C10-E01 Thiophenols

C10-E02 Phenols

C10-E03 Thioalcohols

C10-E04 **Alcohols general**  
 Generic codes are only used for general disclosures which would otherwise require several specific codes. When a specific search is made, the - corresponding generic codes must also be searched.

C10-E04A . Alcohols containing hydroxy attached directly to alicyclic ring  
 Including inositol. 1975

C10-E04B . Alcohols containing carbocyclic ring(s) 1975

C10-E04C . Polyalcohols and ethers and esters thereof 1975

C10-E04D . Other alcohols 1975

**C10-F KETONES**

C10-F01 Thioketones

C10-F02 Ketones

**C10-G CARBOXYLIC ESTERS AND NITRO**  
 Oxygen atoms may be replaced by S, where applicable.

C10-G01 Thiocarboxylic esters

C10-G02 Carboxylic esters

C10-G03 Nitro

**C10-H ETHERS AND HALOGENS**  
 Oxygen atoms may be replaced by S, where applicable.

C10-H01 Ethers

C10-H02 **Halogen general** 1986

C10-H02A . F linked to aromatic ring 1965

C10-H02B . F not linked to aromatic ring 1965

C10-H02C . Br or I linked to aromatic ring 1965

C10-H02D . Br or I not linked to aromatic ring 1965

C10-H02E . Cl linked to aromatic ring 1965

C10-H02F . Cl not linked to aromatic ring 1965

**C10-J HYDROCARBONS**

C10-J01 -C≡C- may form part of alicyclic ring 1965

C10-J02 Others 1965

## C11 PROCESSES, APPARATUS

C11 codes are only used when the inventive feature of the patent cannot be completely described in terms of chemical descriptors in C01 to C10. Test **methods** must be claimed for C11 codes to be applied, i.e. if a compound can be used as a reagent but the test is not claimed, only C12-K04+ codes are applied.

C11-A FERMENTATION GENERAL	
C11-A01	Using microorganisms
	1994
C11-A01A	. Using bacteria
	2006
C11-A01B	. Using viruses
	2006
C11-A01C	. Using fungi
	2006
C11-A02	Using enzymes
	1994
C11-A02A	. Using oxidoreductases general
	2006
C11-A02A1	.. Using oxidases
	2006
C11-A02A2	.. Using peroxidases
	2006
C11-A02A3	.. Using oxygenases
	2006
C11-A02A4	.. Using dehydrogenases, reductases
	2006
C11-A02A5	.. Using lipxygenases
	2006
C11-A02B	. Using transferases general
	2006
C11-A02B1	.. Using DNA/RNA polymerases
	2006
C11-A02B2	.. Using reverse transcriptases
	2006
C11-A02B3	.. Using kinases
	2006
C11-A02C	. Using hydrolases general
	2006
C11-A02C1	.. Using esterases
	2006
C11-A02C2	.. Using glycosidases
	2006
C11-A02C3	.. Using proteases/peptide hydrolases
	2006
C11-A02D	. Using lyases
	2006
C11-A02E	. Using isomerases
	2006
C11-A02F	. Using ligases
	2006
C11-A03	Using algae
	2010

C11-B EXTRACTION, SEPARATION, RECOVERY, PURIFICATION, CRYSTALLISATION	
If part of a diagnostic process see C11-C08D.	
C11-B01	Separation of stereoisomers by a biological method
	2006
C11-B02	Separation of stereoisomers by other method
	2006
C11-B03	Other separations
	2006
C11-B04	Removal processes
	2006
C11-B05	Method for preservation and/or storage
	2009
C11-B06	Method for cleaning and/or sterilization
	2010
C11-C GENERAL PROCESS, APPARATUS	
C11-C01	General chemical processes
	1971
C11-C01A	. Combinatorial chemistry
	2002
C11-C01A1	.. Library synthesis
	Used when the patent is describing a technique for producing, rather than using a combinatorial library.
	2005
C11-C01A2	.. Liquid-phase synthesis
	Process in which the chemical building blocks are present in solution.
	2005
C11-C01A3	.. Solid-phase synthesis
	Process in which the chemical building blocks are bound to a polymer.
	2005
C11-C01A4	.. Parallel synthesis
	Process in which each separate starting material is present in a different well in a microarray and the reagent is added simultaneously to all of the wells with the results that each product is present in a different well.
	2005
C11-C01A5	.. High-volume synthesis
	Process in which very large numbers of compounds are produced from a large variety of starting materials.
	2005
C11-C01B	. Apparatus for combinatorial chemistry
	2002
C11-C01C	. Other processes
	2002
C11-C01C1	.. Stereo-specific reactions
	2006
C11-C01C2	.. Stereo-selective reactions
	2006

C11-C01D	. <b>Stereochemistry</b> Includes geometrical isomers.	2006	C11-C04G	. <b>Tissue engineering technologies</b> Includes wound care technologies (e.g. bone cement), stem cell therapeutic applications, and tissue and organ production (e.g. by inkjet printers and tissue scaffolds)	2007
C11-C01E	. <b>Amplification processes for production</b> <i>Previous code(s): C11-A02B1</i>	2007			
C11-C02	<b>Syringes</b>	1971	C11-C04H	. <b>Adaptors, fixing devices, seals</b> used for e.g., attaching tubes to syringes, attaching catheter tubes to supports	2009
C11-C02A	. <b>Hypodermic syringes</b> Includes multi-use as well as single-use and moulded disposable syringes.	2005	C11-C04J	. <b>Cements, putties</b> Includes bone cement etc	2010
C11-C02B	. <b>Needles</b> Should cover all needles, not just those for syringes. Not for microneedles – these are coded under 12-M02F instead.	2005	C11-C05	<b>Machine/apparatus for producing pharmaceutical, veterinary or agricultural composition</b> e.g. tableting machines.	1971
C11-C02C	. <b>Syringe components</b>	2006	C11-C06	<b>Containers, packing, preserving apparatus, storage tanks, transporting apparatus general</b>	1975
C11-C02D	. <b>Syringe disposal apparatus</b>	2006			
C11-C03	<b>Dispensers</b>	1971	C11-C06A	. <b>Closures, caps</b> Including safety caps.	1977
C11-C04	<b>Machine/device/method for use in/on living body, general</b> Should be applied for any claimed/novel devices used for spraying or applying therapeutics on plants. Includes physical methods of treating plant disorders by means of irradiation, heating etc.	1971	C11-C06B	. <b>Formulation counting devices</b> e.g. tablet counting machines	2009
C11-C04A	. <b>Implant</b>	1977	C11-C06C	. <b>Peripheral devices for therapeutic regimens</b> Includes stands for e.g. infusion devices, tamper alarms.	2010
C11-C04A1	.. <b>Stent</b>	2006	C11-C07	<b>Antibody-antigen reaction, precipitation tests; colorimetric, fluorescence, radioactive tracer tests, general</b> C11-C07+ and C11-C08+ codes are applied when diagnosis/testing process forms a novel part of an invention.	1975
C11-C04B	. <b>Catheter</b> Includes cannula.	1977	C11-C07A	. <b>Antigen - antibody reaction general</b> Excluding C11-A.	1977
C11-C04C	. <b>Injection gun, general</b>	2005	C11-C07A1	.. <b>Production of antigen for test</b>	1986
C11-C04D	. <b>Applicator</b>	2005	C11-C07A2	.. <b>Antigen or antibody bound to colour tracer</b>	1986
C11-C04E	. <b>Needle-free injector</b> A syringe type device that uses applied pressure to inject the drug through the skin, and particularly into the gums during dental procedures.	2005	C11-C07A3	.. <b>Antigen or antibody bound to radioactive tracer</b>	1986
C11-C04F	. <b>Artificial organs</b> Including heart-lung machines, kidney dialysis equipment, pacemakers and artificial livers and skin. Includes production of these organs. Not to be confused with Prosthesis (coded C12-M17) or Implants (coded C11-C04A).	2005	C11-C07A4	.. <b>Antigen or antibody bound to enzyme tracer</b>	1986
			C11-C07A5	.. <b>Antigen or antibody bound to fluorescent or chemiluminescent tracer or colour</b>	1986

C11-C07A6	.. Antigen or antibody bound to other type of carrier e.g. erythrocytes, glass, polymer.	1986	C11-C08E	. Biological procedures for testing general Other than C11-A and C11-C07A.	1986
C11-C07A7	.. Apparatus for antigen antibody reaction, where the antigen or antibody type or carrier are irrelevant to the invention	1986	C11-C08E1	.. Fermentation of micro-organisms, cell or tissue culture e.g. testing antibiotics by cultivation of microorganisms.	1986
C11-C07B	. Colorimetric tests Including fluorescence (excluding B11-C07A).	1977	C11-C08E2	.. Noting physiological responses in animals or plants/modelling diseases e.g. increased activity, change of habit. This code is applied only when the test is the main inventive feature.	1986
C11-C07B1	.. Colorimetric (detection of colour change in a reagent)	1986	C11-C08E3	.. Enzyme processes other than polarography or enzyme labelling Excluding C11-C07A, but including the use of restriction enzymes (endonucleases) and the polymerase chain reaction (PCR).	1986
C11-C07B2	.. Spectrophotometric	1986	C11-C08E4	.. DNA sequencing methods Other than those involving enzymes. <i>Previous code(s): C11-C08, C11-C08E3</i>	1994
C11-C07B3	.. Fluorescence	1986	C11-C08E5	.. DNA hybridisation test methods, use of DNA probes <i>Previous code(s): C11-C08, C11-C08E3</i>	1994
C11-C07B4	.. Chemiluminescence	1986	C11-C08E6	.. Microarrays and biochips	2002
C11-C07B5	.. Radioactive tracer other than C11-C07A3	1986	C11-C08E7	.. Agonist/antagonist identification	2005
C11-C07B6	.. Reflectance, light scattering etc.	2005	C11-C08F	. Protein/Gene analysis general	2002
C11-C07B7	.. Apparatus for colorimetric analysis where the apparatus is the novelty of the invention	2009	C11-C08F1	.. Computational genomics	2002
C11-C08	Other methods/apparatus for testing/detection Including new drug screening systems.	1975	C11-C08F2	.. Experimental genomics	2002
C11-C08A	. NMR, mass spectroscopy Excluding NMR, mass spectroscopy for gene/protein analysis which is coded under C11-C08G2.	1986	C11-C08F3	.. Computational proteomics	2002
C11-C08B	. Potentiometry, polarography	1986	C11-C08F4	.. Experimental proteomics	2002
C11-C08C	. Sampling device and sampling method for testing	1986	C11-C08F5	.. Functional genomics	2009
C11-C08C1	.. Microfluidic devices	2007	C11-C08F6	.. Functional proteomics	2009
C11-C08D	. Separation methods of testing and diagnosis general Other than C11-B.	1986	C11-C08G	. Structural gene/protein analysis general	2002
C11-C08D1	.. Electrophoresis	1986	C11-C08G1	.. X-ray crystallography	2002
C11-C08D2	.. Chromatography, ion exchange Including High Performance Liquid Chromatography (HPLC).	1986	C11-C08G2	.. NMR spectroscopy	2002
C11-C08D3	.. Filtration, centrifugation, sedimentation, dialysis	1986			

C11-C08G3	.. Electron microscopy	2002
C11-C08H	. Drug design by computer modelling	2002
C11-C08J	. Microscopy/ optical processes & apparatus	2005
C11-C08K	. Other analytical apparatus where the apparatus is the novelty of the invention Novel apparatus for colorimetric analysis codes as C11-C07B7	2009
C11-C09	Other processes, appts. Processes and apparatus not covered elsewhere in section 11.	1975
C11-C09A	. Processes	2006
C11-C09B	. Apparatus	2006
C11-C10	Screening general	2002
C11-C10A	. High throughput screening	2002
C11-C10B	. High content screening Whole cell analysis used in drug screening. Differs from high-throughput screens that are usually homogenous in-vitro assays. Includes the analysis of multiple independent or interacting targets in intact cells using e.g. advanced optical imaging systems, fluorescent-based reagents and advanced informatics tools. Also includes predictive toxicity and ADME (absorption, distribution, metabolism and excretion) screening.	2005
C11-C10C	. Protein/gene libraries Collections of protein or nucleic acid fragments and clones used as a tool in biochemical processes.	2005
C11-C10D	. Phage display libraries	2005
C11-C11	General computing methods & apparatus Including media and methods for storing, searching & retrieving data and drug databases.	2005
C11-C11A	. Patient compliance methods & systems Methods concerning patient compliance, e.g. medication reminders.	2005

C11-C12	Nanotechnology (general) Covers nanoswitches made of DNA.	2005
C11-C13	Particle engineering Any process concerned with the design of the physical form of the particles in the dosage (as opposed to the chemical constitution of them). This optimises drug delivery properties of the dosage form.	2005

## C12 DIAGNOSTICS AND FORMULATION TYPES (Therapeutic, Pesticidal, Herbicidal) (pre-1994)

<b>C12-A</b>	<b>ANTIMICROBIAL TYPE</b>	
<b>C12-A01</b>	<b>Antibacterial</b> Antibiotics are only C02. Immunostimulant with C12-A06 (pre-1994). <i>Now coded as: C14-A01+</i>	1965-1993
<b>C12-A02</b>	<b>Antifungal, antialgal, antilichen general</b> <i>Now coded as: C14-A04+, C14-B08</i>	1965-1993
<b>C12-A02A</b>	. <b>Antialgal</b>	1986-1993
<b>C12-A02B</b>	. <b>Antilichen</b> <i>Now coded as: C14-B08</i>	1986-1993
<b>C12-A02C</b>	. <b>Antifungal</b> <i>Now coded as: C14-A04+</i>	1986-1993
<b>C12-A03</b>	<b>Antileprotic</b> <i>Now coded as: C14-A01B1</i>	1965-1993
<b>C12-A04</b>	<b>Antitubercular</b> <i>Now coded as: C14-A01B1</i>	1965-1993
<b>C12-A05</b>	<b>Antivenereal</b> <i>Now coded as: C14-N07C, C14-A01A, C14-A01A5</i>	1965-1993
<b>C12-A06</b>	<b>Antiviral</b> Vaccines are only C02-V. Immunostimulant with B12-A01 (pre-1994). <i>Now coded as: C14-A02+</i>	1965-1993
<b>C12-A07</b>	<b>Skin and wound treatment</b> <i>Now coded as: C14-N17+</i>	1965-1993
<b>C12-A08</b>	<b>Antifouling</b> Prior to 198601 search C12-A02, C12-N01, C12-N04 and C12-N05. <i>Now coded as: C12-B15</i>	1986-1993
<b>C12-B</b>	<b>ANTIPARASITIC TYPE</b>	
<b>C12-B01</b>	<b>Amoebicide</b> <i>Now coded as: C14-A03A</i>	1965-1993
<b>C12-B02</b>	<b>Anthelmintic</b> <i>Now coded as: C14-B03</i>	1965-1993
<b>C12-B03</b>	<b>Antimalarial</b> <i>Now coded as: C14-A03B</i>	1965-1993

<b>C12-B04</b>	<b>Antiparasitic (general), acaricide</b> <i>Now coded as: C14-B02</i>	1965-1993
<b>C12-B05</b>	<b>Coccidiostat</b> <i>Now coded as: C14-A03C</i>	1965-1993
<b>C12-B06</b>	<b>Schistosomicide</b> <i>Now coded as: C14-B03A</i>	1965-1993
<b>C12-B07</b>	<b>Trypanocide</b> <i>Now coded as: C14-A03E</i>	1965-1993
<b>C12-C</b>	<b>CNS-ACTIVE TYPE (I)</b>	
<b>C12-C01</b>	<b>Anaesthetic(general)</b> <i>Now coded as: C14-C08</i>	1965-1993
<b>C12-C02</b>	<b>Anaesthetic (Local)</b> <i>Now coded as: C14-C09</i>	1965-1993
<b>C12-C03</b>	<b>Analeptic</b> <i>Now coded as: C14-J01A2</i>	1965-1993
<b>C12-C04</b>	<b>Antiparkinsonian drug</b> <i>Now coded as: C14-J01A3</i>	1965-1993
<b>C12-C05</b>	<b>Central depressant</b> <i>Now coded as: C14-J01B</i>	1965-1993
<b>C12-C06</b>	<b>Central stimulant</b> <i>Now coded as: C14-J01A, C14-J01A1</i>	1965-1993
<b>C12-C07</b>	<b>Hypnotic</b> <i>Now coded as: C14-J01B1</i>	1965-1993
<b>C12-C08</b>	<b>Sedative</b> <i>Now coded as: C14-J01B2</i>	1965-1993
<b>C12-C09</b>	<b>Synergist</b> <i>Now coded as: C14-S09</i>	1965-1993
<b>C12-C10</b>	<b>Tranquilliser</b> <i>Now coded as: C14-J01B4, C14-J01A4, C14-F02D1, C14-J01, C14-J01B3, C14-N16, C14-S07</i>	1965-1993
<b>C12-D</b>	<b>CNS-ACTIVE TYPE (II)</b>	
<b>C12-D01</b>	<b>Analgesic</b> <i>Now coded as: C14-C01</i>	1965-1993
<b>C12-D02</b>	<b>Antiallergic general</b> <i>Now coded as: C14-G02A</i>	1965-1993
<b>C12-D02A</b>	. <b>Autoimmune disease treatment</b> See also C12-D03, C12-D07, C12-D09. <i>Now coded as: C14-G02D</i>	1986-1993

C12-D02B	. <b>Immune suppressant.</b> Immunomodulatory is also coded as C12-A01 and C12-A06 1986-1993 <i>Now coded as: C14-G02, C14-G03, C14-G02C</i>	C12-E04	<b>Parasympathetic blocker</b> 1965-1993 <i>Now coded as: C14-J02B+, C14-J05D</i>
C12-D02C	. <b>Complement inhibitor</b> 1986-1993 <i>Now coded as: C14-G02D</i>	C12-E05	<b>Parasympathetic stimulant, acetyl choline potentiator</b> 1965-1993 <i>Now coded as: C14-J02A+</i>
C12-D02D	. <b>Anti slow-releasing-substance of anaphylaxis (SRS-A)</b> 1986-1993 <i>Now coded as: C14-G02B</i>	C12-E06	<b>Sympathetic blocker general</b> 1965-1993 <i>Now coded as: C14-J02D, C14-J02D3</i>
C12-D03	<b>Antiarthritic</b> 1965-1993 <i>Now coded as: C14-C010+</i>	C12-E06A	. <b>Alpha-adrenergic blocker</b> 1986-1993 <i>Now coded as: C14-J02D1</i>
C12-D04	<b>Anticonvulsant</b> 1965-1993 <i>Now coded as: C14-J07</i>	C12-E06B	. <b>Beta-adrenergic blocker</b> 1986-1993 <i>Now coded as: C14-J02D2</i>
C12-D05	<b>Antiemetic</b> 1965-1993 <i>Now coded as: C14-E05</i>	C12-E07	<b>Sympathetic stimulant adrenergic stimulant adrenaline potentiator</b> 1965-1993 <i>Now coded as: C14-J02C+</i>
C12-D06	<b>Antihistamine general</b> For gastric secretion inhibitor see also C12-J02. 1965-1993 <i>Now coded as: C14-L10</i>	C12-E08	<b>Ulcers (peptic and duodenal)</b> 1965-1993 <i>Now coded as: C14-E08</i>
C12-D06A	. <b>H2-secretion inhibitor</b> 1986-1993 <i>Now coded as: C14-L12</i>	C12-E09	<b>Uterus-active</b> 1965-1993 <i>Now coded as: C14-N14</i>
C12-D06B	. <b>H1 inhibitor</b> 1986-1993 <i>Now coded as: C14-L11</i>	C12-F	<b>CARDIOACTIVE TYPE</b> <i>Previous code(s): C14-F</i>
C12-D07	<b>Antiinflammatory</b> 1965-1993 <i>Now coded as: C14-C02, C14-C03, C14-C04</i>	C12-F01	<b>Cardioactive general</b> 1965-1993 <i>Now coded as: C14-F01</i>
C12-D08	<b>Antipyretic</b> 1965-1993 <i>Now coded as: C14-C05, C14-C06</i>	C12-F01A	. <b>Arrhythmia treatment</b> 1986-1993 <i>Now coded as: C14-F01A</i>
C12-D09	<b>Antirheumatic</b> 1965-1993 <i>Now coded as: C14-C07</i>	C12-F01B	. <b>Cardiac stimulant</b> Including treatment of myocardial infarct, myocardial contraction intensifying, cardiac arrest treatment, cardiotonic, cardiac insufficiency treatment. 1986-1993 <i>Now coded as: C14-F01B</i>
C12-D10	<b>Convulsant</b> 1965-1993 <i>Now coded as: C14-J06</i>	C12-F01C	. <b>Cardiovascular. Inotropic</b> Prior to 8602 coded as C12-E02. 1986-1993 <i>Now coded as: C14-F01C</i>
C12-E	<b>AUTONOMIC N.S. ACTIVE TYPE</b>	C12-F02	<b>Coronary dilator</b> 1965-1993 <i>Now coded as: C14-F01D, C14-F01E</i>
C12-E01	<b>Autonomic N.S. active general</b> 1965-1993 <i>Now coded as: C14-F02, C14-J02</i>	C12-F03	<b>Ganglion-blocker</b> 1965-1993 <i>Now coded as: C14-F01F</i>
C12-E02	<b>Muscle-relaxant, inotropic</b> See also C12-F01. 1965-1993 <i>Now coded as: C14-J05, C14-J05A, C14-J05C, C14-J05D</i>	C12-F04	<b>Hypertensive</b> 1965-1993 <i>Now coded as: C14-F02A</i>
C12-E03	<b>Mydriatic/myopic</b> 1965-1993 <i>Now coded as: C14-J05B</i>	C12-F05	<b>Hypotensive general</b> 1965-1993 <i>Now coded as: C14-F02B</i>



C12-F05A	. <b>Angiotensin converting enzyme inhibitor, renin inhibitor</b> 1986-1993 <i>Now coded as: C14-F02B1</i>	C12-G04A	. <b>Anti-aging, anti-senility, anti-Alzheimer's disease</b> Including non-hormonal treatment. 1986-1993 <i>Now coded as: C14-J01A4</i>
C12-F05B	. <b>Calcium entry blockers</b> C12-G01 may also be searched. 1986-1993 <i>Now coded as: C14-F02B2</i>	C12-G04B	. <b>Androgenic</b> 1986-1993 <i>Now coded as: C14-D01A</i>
C12-F06	<b>Vasoconstrictor</b> 1965-1993 <i>Now coded as: C14-F02C</i>	C12-G04C	. <b>Oestrogenic</b> 1986-1993 <i>Now coded as: C14-D01B</i>
C12-F07	<b>Vasodilator</b> 1965-1993 <i>Now coded as: C14-F02D+</i>	C12-G04D	. <b>Progestational</b> 1986-1993 <i>Now coded as: C14-D01C</i>
C12-G	<b>METABOLISM ACTIVE TYPE</b>	C12-G05	<b>Leukaemia treatment</b> 1965-1993 <i>Now coded as: C14-H01A</i>
C12-G01	<b>Antimetabolite general</b> 1965-1993 <i>Now coded as: C14-J04, C14-L06, C14-L07, C14-L08</i>	C12-G06	<b>Thyroid agent</b> 1965-1993 <i>Now coded as: C14-N11</i>
C12-G01A	. <b>Antihormone, antiandrogenic, antioestrogenic, antiprogestational, adrenal cortex inhibitor</b> 1986-1993 <i>Now coded as: C14-D02+</i>	C12-G07	<b>Tumour-inhibitor</b> 1965-1993 <i>Now coded as: C14-H01, C14-H01B</i>
C12-G01B	. <b>Enzyme inhibitor</b> 1986-1993 <i>Now coded as: C14-D03, C14-D04</i>	C12-H	<b>BLOOD ACTIVE TYPE</b>
C12-G01B1	.. <b>Antioxidoreductase</b> 1986-1993 <i>Now coded as: C14-D05+</i>	C12-H01	<b>Antianaemic</b> 1965-1993 <i>Now coded as: C14-F03</i>
C12-G01B2	.. <b>Antitransferase</b> 1986-1993 <i>Now coded as: C14-D06+</i>	C12-H02	<b>Anticoagulant</b> 1965-1993 <i>Now coded as: C14-F04</i>
C12-G01B3	.. <b>Antihydrolase</b> 1986-1993 <i>Now coded as: C14-D07+</i>	C12-H03	<b>Antilipaemic</b> 1965-1993 <i>Now coded as: C14-F06, C14-F07</i>
C12-G01B4	.. <b>Antilyase</b> 1986-1993 <i>Now coded as: C14-D08</i>	C12-H04	<b>Coagulant</b> 1965-1993 <i>Now coded as: C14-F08</i>
C12-G01B5	.. <b>Antilisomerase</b> 1986-1993 <i>Now coded as: C14-D09</i>	C12-H05	<b>Hypoglycaemic</b> 1965-1993 <i>Now coded as: C14-F09, C14-F10</i>
C12-G01B6	.. <b>Antiligase (antisyntetase)</b> 1986-1993 <i>Now coded as: C14-D10</i>	C12-H06	<b>Plasma and blood substitutes</b> 1965-1993 <i>Now coded as: C14-F11</i>
C12-G02	<b>Choleretic and liver</b> 1965-1993 <i>Now coded as: C14-N12</i>	C12-J	<b>GASTROINTESTINAL ACTIVE TYPE</b>
C12-G03	<b>Diuretic and kidney</b> For urinary tract infections see C12-A01. 1965-1993 <i>Now coded as: C14-F02E, C14-N10</i>	C12-J01	<b>Anabolic agent, nutritional, achlorhydria treatment (humans)</b> 1965-1993 <i>Now coded as: C14-E10+, C14-E11</i>
C12-G04	<b>Hormone adrenocortical</b> Including Addison's disease treatment (general). 1965-1993 <i>Now coded as: C14-D01, C14-D01D, C14-D01E, C14-J03</i>	C12-J02	<b>Anorectic, antisecretory</b> 1965-1993 <i>Now coded as: C14-E07, C14-E12</i>
		C12-J03	<b>Antacid</b> 1965-1993 <i>Now coded as: C14-E01, C14-E03</i>
		C12-J04	<b>Antidiarrhoeal, antihaemorrhoidal</b> 1965-1993 <i>Now coded as: C14-E02, C14-E04</i>

C12-J05	<b>Antidote general</b> <i>Now coded as: C14-M01, C14-M01C</i>	1965-1993	C12-K04A1	.. Diagnosis of tumours, cancer	1986
C12-J05A	. <b>Alcoholism treatment</b> <i>Now coded as: C14-M01A</i>	1986-1993	C12-K04A2	.. Diagnosis of heart and circulatory disorders	1986
C12-J05B	. <b>Antismoking</b> <i>Now coded as: C14-M01B</i>	1986-1993	C12-K04A3	.. Diagnosis of genetic disorders	1986
C12-J05C	. <b>Anti-heavy metal poisoning</b> <i>Now coded as: C14-M01D</i>	1986-1993	C12-K04A4	.. Diagnosis of microbial infections	1986
C12-J05D	. <b>Pesticide or herbicide antidote</b> <i>Now coded as: C14-M01</i>	1986-1993	C12-K04A4A	... Detection of viral diseases	2005
C12-J05E	. <b>Protecting plants from poisons</b> <i>Now coded as: C14-M01F</i>	1986-1993	C12-K04A4B	... Detection of bacterial diseases	2005
C12-J06	<b>Emetic</b> <i>Now coded as: C14-E06</i>	1965-1993	C12-K04A5	.. Diagnosis of CNS disorders	1986
C12-J07	<b>Laxative</b> <i>Now coded as: C14-E09</i>	1965-1993	C12-K04A6	.. Diagnosis of pregnancy, testing or measuring sex hormone levels and oestrus cycle	1986
C12-J08	<b>Bone disorder treatment, osteoporosis</b> Excluding arthritis treatment (C12-D03) and bone marrow cell disorders (C12-G05). For osteoporosis prior to 198601 search C12-J01. <i>Now coded as: C14-N01</i>	1986-1993	C12-K04A7	.. Detection of parasites Including protozoa and helminths.	2006
C12-K	<b>DIAGNOSTICS RESPIRATORY ACTIVE TYPE (PRE-1994)</b>		C12-K04A8	.. Diagnosis of immunological disorders	2007
C12-K01	<b>Antitussive</b> <i>Now coded as: C14-K01B</i>	1965-1993	C12-K04B	. <b>In vivo radiopharmaceutical diagnostics</b>	1986
C12-K02	<b>Bronchodilator</b> <i>Now coded as: C14-K01D</i>	1965-1993	C12-K04C	. <b>Imaging body parts other than by X-ray contrast agents or radio-pharmaceuticals</b>	1986
C12-K03	<b>Contraceptive</b> <i>Now coded as: C14-P01+</i>	1965-1993	C12-K04C1	.. Ultrasonics	1994
C12-K04	<b>Diagnosis and testing general</b> This section is used for coding substances which are stated to be detecting agents. e.g. a new antibody for detecting cancer is coded under C04-G and C12-K04A1 only. When the procedure for detecting is described as novel, then the corresponding C11-C07 and C11-C08 codes are also applied.		C12-K04C2	.. NMR <i>Previous code(s): C12-K04C</i>	1994
C12-K04A	. <b>Diagnosis of diseases or conditions in animals general</b> Including detection of glucose in blood and ethanol in breath.	1986	C12-K04C3	.. Positron emission tomography	2007
			C12-K04D	. <b>Testing for plant disorders or diseases</b>	1986
			C12-K04E	. <b>Testing for substances other than for diseases</b> Not in body fluids.	1986
			C12-K04E1	.. Drug discovery process	2005
			C12-K04E2	.. Environmental testing Includes testing for contaminants in rivers.	2005
			C12-K04E3	.. Other drug testing	2007
			C12-K04F	. <b>Tests involving DNA, hybridisation probes etc.</b> <i>Previous code(s): C12-K04, C12-K04A</i>	1994

C12-K05	<b>Expectorant</b> <i>Now coded as: C14-K01E</i>	1965-1993	C12-M01B2	.. <b>Multidose inhaler</b> A different type of inhaler that is also breath-activated. Used to deliver many smaller doses to make up the full required dosage.	2005
C12-K06	<b>Respiratory active</b> <i>Now coded as: C14-K01, C14-K01C</i>	1965-1993	C12-M01B3	.. <b>Nebuliser</b> A device which is used to administer a solution of drug in the form of a fine mist for you to inhale. Air is forced through the drug solution in the drug chamber, changing the liquid into a fine mist which is breathed in through a mask or mouthpiece.	2005
C12-K07	<b>Contrast medium</b> Includes X-ray contrast medium and MRI contrast medium.		C12-M01C	. <b>Smoke</b>	1986
C12-L	<b>COSMETIC PREPARATION TYPE</b>		C12-M01D	. <b>Intranasal</b> <i>Now coded as: C12-M12Q</i>	2002-2006
C12-L01	<b>Antiperspirant</b> <i>Now coded as: C14-R03</i>	1965-1993	C12-M01E	. <b>Other gaseous forms</b>	2005
C12-L02	<b>Cosmetic</b> <i>Now coded as: C14-R01</i>	1965-1993	C12-M02	<b>Cream, gel, ointment, plaster</b>	
C12-L03	<b>Dental agent</b> <i>Now coded as: C14-N06</i>	1965-1993	C12-M02A	. <b>Toothpaste, toothpowder</b> From 198601 C12-L03 is not additionally applied .	1986
C12-L04	<b>Ear, nose, eye mouth and throat preparation</b> <i>Now coded as: C14-N02, C14-N03, C14-N04, C14-N05</i>	1965-1993	C12-M02B	. <b>Ointment, cream, lotion</b> Includes liniment and balm.	1986
C12-L05	<b>Hair preparation</b> <i>Now coded as: C14-R02</i>	1965-1993	C12-M02C	. <b>Cataplasm, poultice</b> Applying heat.	1986
C12-L06	<b>Insect repellent</b> <i>Now coded as: C14-B05</i>	1965-1993	C12-M02D	. <b>Adhesive sheet, sticking plaster, bandage</b> Excluding C12-M02C.	1986
C12-L07	<b>Perfume</b> <i>Now coded as: C14-R04</i>	1965-1993	C12-M02E	. <b>Dusting powder</b> Topical use only.	1986
C12-L08	<b>Sunscreen agent</b> <i>Now coded as: C14-R05</i>	1965-1993	C12-M02F	. <b>Transdermal</b> Administration of a drug through dermal or mucosal membrane. Includes microneedles.	1986
C12-L09	<b>Veterinary</b>	1965-1993	C12-M02G	. <b>Gels/hydrogels</b>	2006
C12-L10	<b>Agricultural composition general</b>	1966-1993	C12-M03	<b>Emulsion</b>	
C12-M	<b>FORMULATIONS TYPE</b> Codes in this section are applied only when the formulation is the main feature of the invention, or ingredients are not specified.		C12-M04	<b>Packaging material, apparatus</b> This code is used in conjunction with only the C, C01, C07, C08 and C09 sub-sections of C11.	
C12-M01	<b>Aerosol, inhalent, smoke general</b>		C12-M05	<b>Pharmaceutical composition general</b>	
C12-M01A	. <b>Aerosol</b>	1986	C12-M06	<b>Preservative</b>	
C12-M01B	. <b>Inhalent</b>	1986	C12-M07	<b>Solution</b>	
C12-M01B1	.. <b>Dry powder inhaler</b> A dry powder inhaler (DPI) is similar to a metered dose inhaler, but is breath-activated, so the patient does not have to co-ordinate activation of the inhaler with inhalation of medicament.	2005	C12-M08	<b>Suppository</b>	
			C12-M09	<b>Surfactant</b>	

C12-M10	<b>Controlled release general</b>		C12-M10D	<b>Pulsed release</b>	
C12-M10A	<b>Sustained release general</b>			Active drug core coated with specific polymers and agents, where active agent is released in a “drug pulse” after a time lag.	
	Active ingredient is gradually released over a period of time.	1986			2005
C12-M10A1	<b>Osmotic pump</b>		C12-M10E	<b>Site-specific release</b>	
	Similar to a reservoir device but with an osmotic agent added (typically the active agent in salt form) which causes pressure generation that forces out the active agent.	2005		Drug bound to /or encased in a bio-polymer or other active substance in order to facilitate it's transfer through the cell wall. This ensures the drug is delivered to the specific cells it needs to reach.	2005
C12-M10A2	<b>Reservoir devices</b>		C12-M10E1	<b>Using liposomes</b>	
	Active drug core encapsulated within a polymer film or coat through which it diffuses.	2005		A site-specific release form in which the drug is encased within a liposome.	2005
C12-M10A3	<b>Multi-layer tablet</b>		C12-M10E2	<b>Using antibodies</b>	
	Variation on the matrix device in which the matrix is coated so as to modify the hydration/swelling of the core and so reduce the surface area available for drug delivery.	2005		A site-specific release form in which the drug is bound to an antibody.	2005
C12-M10A4	<b>Other matrix devices</b>		C12-M10F	<b>Externally stimulated devices (e.g. electrically or ultrasonically)</b>	
	Drug is present as a dispersion within a polymer matrix. Also known as monolithic devices. Not used for the multi-layer tablet type (in which matrix is fully or partially coated) or for externally stimulated devices.	2005		Any controlled release device in which the release of the drug is by an external stimulus. May be used in conjunction with other C12-M10 codes.	2005
C12-M10A5	<b>Pendant devices</b>		C12-M11	<b>Tablets, capsules etc. general</b>	
	Active is bound to polymer, from which it is released by hydrolytic enzymes in the body.	2005	C12-M11A	<b>Anticaking</b>	1986
C12-M10A6	<b>Dual release devices</b>		C12-M11B	<b>Tablet (pressed)</b>	1986
	Typically soft gelatin capsules designed to provide an initial burst of drug followed by a steady release of the remainder. Consists of an inner aqueous matrix and outer lipophilic matrix.	2005	C12-M11C	<b>Capsule</b>	
C12-M10A7	<b>Nanotechnology devices</b>			Excluding microcapsule.	1986
	Use of nanotechnology to deliver drugs to specific sites and control their release at that point.	2005	C12-M11D	<b>Pellet, prill, granule</b>	
C12-M10B	<b>Delayed release</b>			Excluding C12-M11B.	1986
	This term is usually associated with enterically coated tablets which prevent the contents from being released until a drug reaches the intestines.	1986	C12-M11E	<b>Microcapsule</b>	
C12-M10C	<b>Rapid release</b>	2002		Excluding C12-M11F.	1986
			C12-M11F	<b>Liposome</b>	1986
			C12-M11G	<b>Powder</b>	1986
			C12-M11H	<b>Polymorphic form</b>	2010
			C12-M11H1	<b>Special amorphous form</b>	2006
			C12-M11H2	<b>Special crystal form</b>	2010
			C12-M11J	<b>Effervescent tablet</b>	1994
			C12-M11K	<b>Tablet with two or more coating layers</b>	1994
				<i>Previous code(s): C12-M11B</i>	

C12-M11L	. Water-soluble tablet	2002	C12-M16	Prosthesis	2005
C12-M11M	. Chewable tablet	2005	C12-M17	Surgical sponge, tampon	2005
C12-M11N	. Microparticle	2006	C12-M18	Encapsulation	2005
C12-M11P	. Lyophilised form	2006	C12-M19	Gene delivery methods	2006
C12-M11Q	. Nanoparticles previously coded as microparticles	2008	C12-M19A	. Gene delivery by viral methods	2006
C12-M11R	. Coated form general and other Tablets with two or more coating layers are coded under C12-M11K	2009	C12-M19B	. Gene delivery by non-viral methods	2006
C12-M11R1	.. Coated capsules	2009	C12-M20	Taste masking agent	2007
C12-M11R2	.. Coated microparticles	2009	C12-M21	Absorbent, accelerator	2007
C12-M12	Mode of administration	2005	C12-Q01	Pharmacogenomics	2006
C12-M12A	. Buccal, sublingual	2005	C12-Q01A	. Pharmacogenomics general	2006
C12-M12B	. External, topical	2005	<hr/>		
C12-M12C	. Injection	2005	C12-N	PESTICIDES, FERTILIZERS	
C12-M12D	. Infusion	2005	C12-N01	Pesticides general	1965-1993
C12-M12E	. Intraarterial	2005	C12-N02	Insecticides	1965-1993
C12-M12F	. Intravenous	2005	C12-N03	Lures, baits etc.	1965-1993
C12-M12G	. Intraaural	2005	C12-N04	Molluscicide, slugicide	1965-1993
C12-M12H	. Intraocular	2005	C12-N05	Rodenticide Including birds etc.	1965-1993
C12-M12J	. Intramuscular	2005	C12-N06	Rodent repellent Including birds etc.	1965-1993
C12-M12K	. Subcutaneous	2005	C12-N07	Soil fumigants, sterilants and seed protectants	1965-1993
C12-M12L	. Intrauterine	2005	C12-N08	Soil improving (other than nutrients), synthetic growth media	1965-1993
C12-M12M	. Intravaginal	2005	C12-N09	Soil nutrients Inorganic, including trace elements.	1965-1993
C12-M12N	. Oral general	2005	C12-N10	Soil nutrients (others)	1965-1993
C12-M12P	. Rectal general	2005	<hr/>		
C12-M12Q	. Intranasal	2006	C12-P	PLANT GROWTH REGULANT TYPE	
C12-M13	. Foliar application	2005	C12-P01	Plant growth regulants general	1965-1993
C12-M14	Suspensions, dispersions	2005	C12-P02	Defoliants, desiccants, chemical mowing	1965-1993
C12-M15	Film, sheet	2005	C12-P03	Fruit drop and set, thinning of fruit	1965-1993
			C12-P04	Growth stimulants, phytohormones	1965-1993

C12-P05	Herbicide (total and general)	1965-1993
C12-P06	Herbicide (selective)	1965-1993
C12-P07	Moss, lichen controlling	1965-1993
C12-P08	Rooting cpds. (rhizogenes)	1965-1993
C12-P09	Sprouting inhibitors, seed germination inhibitors, growth inhibitors	1965-1993
C12-P10	Moisture conservation (mulches)	1965-1993
C12-R	<b>FORMULATION SPECIFICALLY EXCLUDING ONE OR MORE COMPONENTS</b> e.g. herbicide formulation specifically excluding glyphosate. The component(s) excluded is/are not coded in sections C01-C10.	2009

## C14 AGRICULTURAL ACTIVITIES

When a patent refers to a drug's mode of action and lists a number of activities associated with it, only the mode of action is coded.

C14-A	<b>ANTIMICROBIALS</b>	1994
C14-A01	<b>Antibacterial general</b>	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01A	. <b>Gram-negative genera, general and other</b>	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01A1	.. <b>Bordetella</b> e.g. B. pertussis.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01A2	.. <b>Borrelia</b> e.g. B. burgdorferi (causes Lyme disease)	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01A3	.. <b>Escherichia</b> e.g. E. coli.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01A4	.. <b>Mycoplasma</b> e.g. M. pneumoniae, M. mycoides.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01A5	.. <b>Neisseria</b> e.g. N. gonorrhoeae, N. meningitidis.	1994
	<i>Previous code(s): C12-A05</i>	
C14-A01A6	.. <b>Pseudomonas</b> e.g. P. aeruginosa, P. mallei.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01A7	.. <b>Rickettsia</b> e.g. R. prowazekii (causes typhus).	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01A8	.. <b>Salmonella</b> e.g. S. typhi (causes typhoid fever).	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01A9	.. <b>Vibrio</b> e.g. V. cholerae, V. parahaemolyticus.	1994
	<i>Previous code(s): C12-A01</i>	
C14-A01B	. <b>Gram-positive genera, general and other</b>	1994
	<i>Previous code(s): C12-A01</i>	

C14-A01B1	.. <b>Mycobacteria</b> e.g. M.bovis, M. phlei.  <i>Previous code(s): C12-A01, C12-A03, C12-A04</i>	1994	C14-A02A3	.. <b>Herpesvirus</b> e.g. cytomegalovirus, Epstein-Barr, chicken pox.  <i>Previous code(s): C12-A06</i>	1994
C14-A01B1A	.. <b>M. tuberculosis</b>	2005	C14-A02A4	.. <b>Poxvirus</b>  <i>Previous code(s): C12-A06</i>	1994
C14-A01B1B	... <b>M. leprae</b>	2005	C14-A02A5	.. <b>Hepatitis B virus</b>  <i>Previous code(s): C12-A06, C12-G02</i>	1994
C14-A01B2	.. <b>Streptococcus</b> e.g. S. pyogenes, S. faecalis, S. pneumoniae (pneumococci), S. lactis.  <i>Previous code(s): C12-A01</i>	1994	C14-A02A6	.. <b>Papovavirus</b> e.g. papilloma.  <i>Previous code(s): C12-A06</i>	1994
C14-A01B3	.. <b>Streptomyces</b> e.g. S. griseus, S. scabies.  <i>Previous code(s): C12-A01</i>	1994	C14-A02A7	.. <b>Hepatitis C treatment</b>	2002
C14-A01B4	.. <b>Staphylococcus</b> e.g. S. aureus, S. epidermitidis.  <i>Previous code(s): C12-A01</i>	1994	C14-A02A8	.. <b>Hepatitis D treatment</b>	2002
C14-A01B5	.. <b>Bacillus</b> e.g. B.anthraxis, B. cereus.   	2006	C14-A02A9	.. <b>Parvovirus</b> Includes treatment of "Slapped cheek" syndrome.  	2005
C14-A01C	. <b>Plant antibacterial general</b>  <i>Previous code(s): C12-A06</i>	1994	C14-A02B	. <b>RNA Viruses general and other</b>  <i>Previous code(s): C12-A06</i>	1994
C14-A01C1	.. <b>Enterobacteria (plant)</b> e.g. Erwinia. Including soft rot, fibre blight treatment.  <i>Previous code(s): C12-A01</i>	1994	C14-A02B1	.. <b>Retrovirus</b> Including leuco- and oncoviruses, T-cell leukemia virus, HIV, Rous sarcoma. Treatment of AIDS directed against symptoms or the immune system is coded C14-G01B.  <i>Previous code(s): C12-A06, C12-G05, C12-G07</i>	1994
C14-A01C2	.. <b>Pseudomonas (plant)</b> Including plant spot, canker, gummosis treatment.  <i>Previous code(s): C12-A01</i>	1994	C14-A02B2	.. <b>(Para/ortho)Myxovirus</b> Including Influenza and mumps. When treatment against influenza is directed against symptoms, other codes may be applied, e.g. antipyretic drug for treating flu is coded C14-C04.  <i>Previous code(s): C12-A06</i>	1994
C14-A01C3	.. <b>Agrobacteria</b> Including crown gall treatment.  <i>Previous code(s): C12-A01</i>	1994	C14-A02B3	.. <b>Picornavirus</b> Including entero-, rhino-, polio-, cold, hepatitis A. For hepatitis B see C14-A02A5. When treatment against cold is directed against symptoms, other codes may be applied, e.g. antiinflammatory drug for treating cold is coded C14-C03.  <i>Previous code(s): C12-A06, C12-G02</i>	1994
C14-A02	<b>Antiviral general</b>  <i>Previous code(s): C12-A06</i>	1994	C14-A02B4	.. <b>Rhabdovirus</b> Including rabies.  <i>Previous code(s): C12-A06</i>	1994
C14-A02A	. <b>DNA Viruses general and other</b>  <i>Previous code(s): C12-A06</i>	1994			
C14-A02A1	.. <b>Adenovirus</b>  <i>Previous code(s): C12-A06</i>	1994			
C14-A02A2	.. <b>Arbovirus</b> This code is used for treatment of e.g. yellow fever or viral encephalitis.  <i>Previous code(s): C12-A06</i>	1994			

C14-A02B5	.. <b>Coronavirus</b> Including SARS, also coded as C14-K01D.  <i>Previous code(s): C12-A06</i>	1994	C14-A04C	. <b>Trichophyton, Microsporum</b> This code covers treatment of e.g. ringworm, tinea, Athlete's foot.  <i>Previous code(s): C12-A02C</i>	1994
C14-A02B6	.. <b>Togavirus</b> Including rubella.  <i>Previous code(s): C12-A06</i>	1994	C14-A05	<b>Antialgal</b>  <i>Previous code(s): C12-A02A</i>	1994
C14-A02B7	.. <b>Reovirus</b> e.g. rotavirus.  <i>Previous code(s): C12-A06</i>	1994	C14-A06	<b>Plant antifungal general</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A02B8	.. <b>Plant antiviral general</b> This code covers treatment of plant viral diseases e.g. mosaic, yellow disease.  <i>Previous code(s): C12-A06</i>	1994	C14-A06A	. <b>Alternaria</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A03B9	.. <b>Flavivirus</b> Includes Yellow Fever virus, Japanese encephalitis virus, Dengue virus, Hepatitis G virus and West Nile virus. It excludes Hepatitis C virus (codes as C14-A02A7).  2005		C14-A06B	. <b>Botrytis</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A03	<b>Antiprotozoal general and other</b>  <i>Previous code(s): C12-B04</i>	1994	C14-A06C	. <b>Fusarium</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A03A	. <b>Amoebicide</b>  <i>Previous code(s): C12-B01</i>	1994	C14-A06D	. <b>Helminthosporium</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A03B	. <b>Antimalarial</b> Plasmodium is the malarial parasite.  <i>Previous code(s): C12-B03</i>	1994	C14-A06E	. <b>Phytophthora</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A03C	. <b>Coccidiostat</b> Includes Eimeria and Isospora.  <i>Previous code(s): C12-B05</i>	1994	C14-A06F	. <b>Pythium</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A03D	. <b>Trichomonicide, histomonicide</b>  <i>Previous code(s): C12-B04</i>	1994	C14-A06G	. <b>Rhizoctonia</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A03E	. <b>Trypanocide</b> i.e. Sleeping sickness.  <i>Previous code(s): C12-B07</i>	1994	C14-A06H	. <b>Sclerotinia</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A03F	. <b>Other antiprotozoal</b>  2005		C14-A06J	. <b>Sclerotium</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A04	<b>Antifungal general and other</b>  1994		C14-A06K	. <b>Septoria</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A04A	. <b>Aspergillus</b>  <i>Previous code(s): C12-A02C</i>	1994	C14-A06L	. <b>Venturia</b>  <i>Previous code(s): C12-A02C</i>	1994
C14-A04B	. <b>Candida</b> This code covers treatment of thrush.  <i>Previous code(s): C12-A02C</i>	1994	C14-A06M	. <b>Verticillium</b>  <i>Previous code(s): C12-A02C</i>	1994
			C14-A06N	. <b>Powdery mildew</b> e.g. Erysiphe, Sphaerotheca, Podosphaera, Uncinula.  <i>Previous code(s): C12-A02C</i>	1994
			C14-A06P	. <b>Downey mildew</b> e.g. Plasmopara, Peronospora.  <i>Previous code(s): C12-A02C</i>	1994
			C14-A06R	. <b>Rusts</b>  <i>Previous code(s): C12-A02C</i>	1994



C14-A06S	. <b>Smuts, bunts</b> e.g. Ustilago, Tilletia.  <i>Previous code(s): C12-A02C</i>	1994	C14-B04B3	.. <b>Diptera</b> Includes house fly, gnat, and mosquito killing.  <i>Previous code(s): C12-N02</i>	1994
C14-A06T	. <b>Others</b>  <i>Previous code(s): C12-A02C</i>	1994	C14-B04B4	.. <b>Ephemeroptera</b> Includes mayfly killing.  <i>Previous code(s): C12-N02</i>	1994
<b>C14-B</b>	<b>PESTICIDES AND OTHER ANTIPARASITICS</b>	1994	C14-B04B5	.. <b>Hemiptera</b> Includes aphid (greenfly) killing.  <i>Previous code(s): C12-N02</i>	1994
C14-B01	<b>Pesticide general</b> This code is applied only when type is unspecified or general.  <i>Previous code(s): C12-N01</i>	1994	C14-B04B6	.. <b>Hymenoptera</b> Includes bee, wasp and ant killing.  <i>Previous code(s): C12-N02</i>	1994
C14-B02	<b>Antiparasitic general</b> This code is applied only when type is unspecified or general.  <i>Previous code(s): C12-B04</i>	1994	C14-B04B7	.. <b>Lepidoptera</b> Covers butterfly and moth killing.  <i>Previous code(s): C12-N02</i>	1994
C14-B03	<b>Vermicide, antihelmintic general and other</b>  <i>Previous code(s): C12-B02</i>	1994	C14-B04B8	.. <b>Orthoptera</b> Covers locust killing.  <i>Previous code(s): C12-N02</i>	1994
C14-B03A	. <b>Nematocide</b> Including threadworm.  <i>Previous code(s): C12-B02</i>	1994	C14-B04B9	.. <b>Siphonaptera</b> Includes flea killing.  <i>Previous code(s): C12-N02</i>	1994
C14-B03B	. <b>Schistosomicide</b>  <i>Previous code(s): C12-B06</i>	1994	C14-B05	<b>Insect repellent</b>  <i>Previous code(s): C12-L06</i>	1994
C14-B03C	. <b>Tapeworm</b>  <i>Previous code(s): C12-B02</i>	1994	C14-B06	<b>Insect attractant (pheromone)</b>  <i>Previous code(s): C12-N03</i>	1994
C14-B03D	. <b>Distomicide, other fluke</b>	2005	C14-B07	<b>Insect sterilant</b>  <i>Previous code(s): C12-K03</i>	1994
C14-B04	<b>Arthropodicide general and other</b> Includes crustacicide, arachnicide.  <i>Previous code(s): C12-N01</i>	1994	C14-B08	<b>Antilichen</b>  <i>Previous code(s): C12-A02B</i>	1994
C14-B04A	. <b>Acaricide</b> Includes miticides, tickicides.  <i>Previous code(s): C12-B04</i>	1994	C14-B09	<b>Rodenticide</b>  <i>Previous code(s): C12-N05</i>	1994
C14-B04B	. <b>Insecticide general and other</b>  <i>Previous code(s): C12-N02</i>	1994	C14-B10	<b>Avicide</b>  <i>Previous code(s): C12-N05</i>	1994
C14-B04B1	.. <b>Coleoptera</b> Covers beetle killing.  <i>Previous code(s): C12-N02</i>	1994	C14-B11	<b>Piscicide</b>  <i>Previous code(s): C12-N05</i>	1994
C14-B04B2	.. <b>Dictyoptera</b> Covers cockroach killing and termite killing.  <i>Previous code(s): C12-N02</i>	1994	C14-B12	<b>Molluscicide</b> Includes gastropodicide, slug, snail, bivalve, octopus killing.  <i>Previous code(s): C12-N04</i>	1994
			C14-B13	<b>Animal repellent (other than insect)</b>  <i>Previous code(s): C12-N06</i>	1994

C14-B14	<b>Lures, baits (other than insect pheromones)</b>	1994
	<i>Previous code(s): C12-N03</i>	
C14-B15	<b>Antifouling</b>	1994
	<i>Previous code(s): C12-A08</i>	
<b>C14-C</b>	<b>ANAESTHETICS AND DRUGS RELIEVING FEVER, INFLAMMATION AND PAIN</b>	1994
C14-C01	<b>Analgesic</b> This code is used when the action of the analgesic is very wide or unspecified. A more specific code is applied where possible e.g. analgesic for treating dysmenorrhea only is coded under C14-N14 only.	1994
	<i>Previous code(s): C12-D01</i>	
C14-C02	<b>Antigout</b>	1994
	<i>Previous code(s): C12-D07, C12-G03</i>	
C14-C03	<b>Antiinflammatory general</b> This code is used for treatment of general oedema or inflammation. Specific inflammation treatments are coded elsewhere when possible e.g. Bronchitis is coded C14-K01 only, colitis as C14-E01C only etc.	1994
	<i>Previous code(s): C12-D07</i>	
C14-C04	<b>Antipyretic</b>	1994
	<i>Previous code(s): C12-D08</i>	
C14-C05	<b>Antihypothermia</b>	1994
	<i>Previous code(s): C12-D08</i>	
C14-C06	<b>Antirheumatic</b>	1994
	<i>Previous code(s): C12-D09</i>	
C14-C07	<b>General anaesthetic</b>	1994
	<i>Previous code(s): C12-C01</i>	
C14-C08	<b>Local anaesthetic</b>	1994
	<i>Previous code(s): C12-C02</i>	
C14-C09	<b>Antiarthritic general and other</b>	1994
	<i>Previous code(s): C12-D03</i>	
C14-C09A	. <b>Osteoarthritis</b>	1994
	<i>Previous code(s): C12-D03</i>	
C14-C09B	. <b>Rheumatoid-arthritis</b>	1994
	<i>Previous code(s): C12-D03</i>	

<b>C14-D</b>	<b>HORMONAL, ANTIHORMONAL, ENZYME INHIBITORS</b> The codes marked with * are also used for agonist/mimetic or receptor agonist/mimetic activities. The codes marked with ** are also used for antagonist/inhibitor or receptor antagonist/inhibitor activities, e.g. aldosterone receptor antagonist is coded C14-D02A1. See section C14-L for other agonist/antagonist activities.	1994
C14-D01	<b>Hormonal general and other*</b>	1994
	<i>Previous code(s): C12-G04</i>	
C14-D01A	. <b>Androgenic*</b>	1994
	<i>Previous code(s): C12-G04B</i>	
C14-D01B	. <b>Oestrogenic*</b>	1994
	<i>Previous code(s): C12-G04C</i>	
C14-D01C	. <b>Progestational*</b>	1994
	<i>Previous code(s): C12-G04D</i>	
C14-D01D	. <b>Other steroid*</b>	1994
	<i>Previous code(s): C12-G04</i>	
C14-D01E	. <b>Peptide hormone activity*</b>	1994
	<i>Previous code(s): C12-G04</i>	
C14-D01E1	.. <b>Melanocortin agonist</b> Adrenocorticotrophic hormone agonist.	2005
C14-D01E2	.. <b>Melanin concentrating hormone agonist</b>	2005
C14-D02	<b>Antihormonal general and other**</b>	1994
	<i>Previous code(s): C12-G01A</i>	
C14-D02A	. <b>Antisteroid general and other**</b>	1994
	<i>Previous code(s): C12-G01A</i>	
C14-D02A1	.. <b>Antialdosterone**</b>	1994
	<i>Previous code(s): C12-G01A</i>	
C14-D02A2	.. <b>Anticholesterol**</b>	1994
	<i>Previous code(s): C12-H03</i>	
C14-D02A3	.. <b>Antiestrogenic</b> This code also covers estrogenic antagonist/inhibitor activity and estrogen receptor antagonist/inhibitor activities.	2005
C14-D02A4	.. <b>Antiprogestational</b> This code also covers progestational antagonist/inhibitor activity and progestational receptor antagonist/inhibitor activities.	2005

C14-D02A5	.. <b>Antiandrogenic</b> This code also covers androgenic antagonist/inhibitor activity and androgen receptor antagonist/inhibitor activities.	2005	C14-D07A	. <b>Antiesterases</b> Including lipase, nuclease, restriction enzyme, sulphatase, phosphatase inhibitors.	1994
				<i>Previous code(s): C12-G01B3</i>	
C14-D02A6	.. <b>Other antisteroid hormone</b> This code also covers other steroid antagonist/inhibitor activity and other steroid receptor antagonist/inhibitor activities.	2005	C14-D07A1	.. <b>Antiphosphodiesterases</b>	2005
			C14-D07B	. <b>Antiglycosidases</b> Including amylase, cellulase, lactase inhibitors.	1994
				<i>Previous code(s): C12-G01B3</i>	
C14-D02B	. <b>Antipeptide hormone**</b>	1994	C14-D07C	. <b>Antiproteases, antipeptide hydrolases</b> Including chymotrypsin, trypsin, papain, fibrinolysin, renin collagenases, elastases inhibitors. Renin inhibitor used as hypotensive is coded C14-F02B1 only.	1994
	<i>Previous code(s): C12-G01A</i>			<i>Previous code(s): C12-G01B3</i>	
C14-D02B1	.. <b>Melanocortin antagonist</b>	2005	C14-D07C1	.. <b>Antimetalloproteases</b>	2005
C14-D02B2	.. <b>Melanin concentrating hormone agonist</b>	2005	C14-D08	<b>Antilyases</b> Including adenylyl cyclases, (de)carboxylases, aldolases, dehydratases inhibitors.	1994
				<i>Previous code(s): C12-G01B4</i>	
C14-D03	<b>Enzyme inhibitors general and other</b>	1994	C14-D09	<b>Antisomerases</b> Including racemases, tautomerases, epimerases, mutases inhibitors.	1994
	<i>Previous code(s): C12-G01B</i>			<i>Previous code(s): C12-G01B5</i>	
C14-D04	<b>Coenzyme inhibitors</b>	1994	C14-D10	<b>Antiligases</b> Including synthetases, some carboxylases inhibitors.	1994
	<i>Previous code(s): C12-G01B</i>			<i>Previous code(s): C12-G01B6</i>	
C14-D05	<b>Antioxidoreductases general and other</b>	1994	C14-E	<b>DRUGS ACTING ON THE GASTROINTESTINAL SYSTEM</b>	1994
	<i>Previous code(s): C12-G01B1</i>		C14-E01	<b>Antacid</b>	1994
C14-D05A	. <b>Antioxidases</b>	1994		<i>Previous code(s): C12-J03</i>	
	<i>Previous code(s): C12-G01B1</i>		C14-E02	<b>Antidiarrhoeal</b>	1994
C14-D05B	. <b>Antiperoxidases</b>	1994		<i>Previous code(s): C12-J04</i>	
	<i>Previous code(s): C12-G01B1</i>		C14-E03	<b>Antiflatulent</b>	1994
C14-D05C	. <b>Antioxygenases</b>	1994		<i>Previous code(s): C12-J03</i>	
	<i>Previous code(s): C12-G01B1</i>		C14-E04	<b>Antihaemorrhoidal</b>	1994
C14-D05D	. <b>Antidehydrogenases, Antireductases</b>	1994		<i>Previous code(s): C12-J04</i>	
	<i>Previous code(s): C12-G01B1</i>		C14-E05	<b>Antiemetic</b>	1994
C14-D06	<b>Antitransferases general and other</b> Includes HIV integrase inhibitor.	1994		<i>Previous code(s): C12-D05</i>	
	<i>Previous code(s): C12-G01B2</i>				
C14-D06A	. <b>AntiDNA/RNA polymerase</b>	1994			
	<i>Previous code(s): C12-G01B2</i>				
C14-D06B	. <b>Antireverse transcriptase</b>	1994			
	<i>Previous code(s): C12-G01B2</i>				
C14-D06C	. <b>Antikinase</b>	2005			
C14-D07	<b>Antihydrolases general and other</b>	1994			
	<i>Previous code(s): C12-G01B3</i>				

C14-E06	<b>Emetic</b>	1994
	<i>Previous code(s): C12-J06</i>	
C14-E07	<b>Gastric secretion inhibitor</b>	1994
	<i>Previous code(s): C12-J02</i>	
C14-E08	<b>Ulcer treatment (peptic, gastric, duodenal)</b>	1994
	Skin ulcers are coded C14-N17B.	
	<i>Previous code(s): C12-E08</i>	
C14-E09	<b>Laxative</b>	1994
	<i>Previous code(s): C12-J07</i>	
C14-E10	<b>Gastrointestinal dysfunction general and other</b>	1994
	<i>Previous code(s): C12-J01</i>	
C14-E10A	. <b>Oesophagal</b>	1994
	<i>Previous code(s): C12-J01</i>	
C14-E10B	. <b>Gastric</b>	1994
	Includes gastritis.	
	<i>Previous code(s): C12-J01</i>	
C14-E10C	. <b>Bowel</b>	1994
	Including irritable and inflammatory bowel (e.g. IBS).	
	<i>Previous code(s): C12-J01</i>	
C14-E10C1	.. <b>Inflammatory bowel conditions</b>	2005
C14-E10D	. <b>Dysentery</b>	1994
	<i>Previous code(s): C12-B01, C12-A01, C12-A06, C12-J04, C12-J05</i>	
C14-E11	<b>Anabolic, anorexia treatment general</b>	1994
	<i>Previous code(s): C12-J01</i>	
C14-E11A	. <b>Anorexia</b>	2005
C14-E11B	. <b>Cachexia</b>	2005
	Any general reduction in the vitality and/or strength of the body and/or mind as a result of a debilitating chronic illness.	
C14-E11C	. <b>Malnutrition</b>	2005
C14-E11D	. <b>Bulimia</b>	2005
C14-E12	<b>Anorectic, obesity treatment (appetite depressant)</b>	1994
	<i>Previous code(s): C12-J02</i>	

C14-F	<b>DRUGS ACTING ON THE BLOOD AND CARDIOVASCULAR SYSTEM</b>	1994
	The codes marked with * are also used for agonist/mimetic or receptor agonist/mimetic activities. The codes marked with ** are also used for antagonist/inhibitor or receptor antagonist/inhibitor activities. See section C14-L for other agonist/antagonist activities.	
C14-F01	<b>Cardioactive general and other</b>	1994
	<i>Previous code(s): C12-F01</i>	
C14-F01A	. <b>Antiarrhythmic</b>	1994
	<i>Previous code(s): C12-F01A</i>	
C14-F01B	. <b>Cardiac stimulant</b>	1994
	Including treatment of myocardial infarct, myocardial contraction intensifying, cardiotonic, cardiac arrest treatment, cardiac insufficiency treatment.	
	<i>Previous code(s): C12-F01B</i>	
C14-F01C	. <b>Cardiac depressant</b>	1994
	<i>Previous code(s): C12-F01C</i>	
C14-F01D	. <b>Antianginal</b>	1994
	<i>Previous code(s): C12-F02</i>	
C14-F01E	. <b>Coronary dilator, coronary ischemia treatment</b>	1994
	<i>Previous code(s): C12-F02</i>	
C14-F01F	. <b>Ganglion blocker</b>	1994
	<i>Previous code(s): C12-F03</i>	
C14-F01G	. <b>Restenosis treatment</b>	2002
C14-F02	<b>Circulatory active general and other</b>	1994
	<i>Previous code(s): C12-E01</i>	
C14-F02A	. <b>Hypertensive (calcium agonists)*</b>	1994
	<i>Previous code(s): C12-F04</i>	
C14-F02B	. <b>Hypotensive general and other</b>	1994
	<i>Previous code(s): C12-F05</i>	
C14-F02B1	.. <b>Angiotensin converting enzyme inhibitor, angiotensin antagonists**</b>	1994
	This code is also applied to renin inhibitor when it is used as hypotensive.	
	<i>Previous code(s): C12-F05A</i>	
C14-F02B2	.. <b>Calcium antagonists/entry blockers**</b>	1994
	<i>Previous code(s): C12-F05B, C12-G01</i>	

C14-F02C	. Vasoconstrictor	1994	C14-G	<b>DRUGS ACTING ON THE IMMUNE SYSTEM</b>	1994
	<i>Previous code(s): C12-F06</i>				
C14-F02D	. Vasodilator, general ischaemia treatment	1994	C14-G01	<b>Immunostimulant general and other</b>	1994
	<i>Previous code(s): C12-F07</i>			<i>Previous code(s): C12-A01, C12-A06</i>	
C14-F02D1	.. Cerebral ischaemia treatment	1994	C14-G01A	. Interferon inducing	1994
	<i>Previous code(s): C12-F07, C12-C10</i>			This code is also used for agonist/mimetic or receptor agonist/mimetic activity.	
C14-F02D2	.. Pulmonary ischaemia treatment	1994		<i>Previous code(s): C12-A06</i>	
	<i>Previous code(s): C12-K06</i>		C14-G01B	. AIDS treatment	1994
C14-F02E	. Lymphatic disease treatment	1994		A drug which combats HIV is coded C14-A02B1.	
	<i>Previous code(s): C12-G03</i>			<i>Previous code(s): C12-A06</i>	
C14-F02F	. Peripheral vascular disorder/angiogenic general	2002	C14-G02	<b>Immunosuppressant general and other</b>	1994
				<i>Previous code(s): C12-D02B</i>	
C14-F02F1	.. Angiogenic	2002	C14-G02A	. Antiallergic	1994
				<i>Previous code(s): C12-D02</i>	
C14-F02F2	.. Anti-angiogenic	2002	C14-G02B	. Antianaphylactic	1994
				<i>Previous code(s): C12-D02D</i>	
C14-F02F3	.. Peripheral vascular disorder	2002	C14-G02C	. Graft/transplant rejection treatment	1994
				<i>Previous code(s): C12-D02B</i>	
C14-F03	<b>Antianaemic</b>	1994	C14-G02D	. Autoimmune disease treatment	1994
	This code covers treatment of blood cell ratio imbalance.			<i>Previous code(s): C12-D02A</i>	
	<i>Previous code(s): C12-H01</i>		C14-G03	<b>Immunomodulatory</b>	1994
C14-F04	<b>Anticoagulant, antiaggregants, thrombolytic</b>	1994		<i>Previous code(s): C12-A01, C12-A06, C12-D02B</i>	
	<i>Previous code(s): C12-H02</i>				
C14-F05	<b>Reperfusion treatment</b>	1994	C14-H	<b>CANCER RELATED DRUGS</b>	
				Codes from sections C14-H01D -H01Z are now structured within the hierarchy C14-H01D to C14-H01L below. All document records containing codes introduced in 2005 will be changed to reflect the updated 2006 hierarchy and codes C14-H01M to C14-H01Z will no longer be searchable.	
C14-F06	<b>Antilipaemic</b>	1994			1994
	<i>Previous code(s): C12-H03</i>		C14-H01	<b>Anticancer general and other</b>	1994
C14-F06A	. Dyslipidemia	2005		<i>Previous code(s): C12-G07</i>	
			C14-H01A	. Leukaemia treatment	1994
C14-F07	<b>Antiartherosclerotic</b>	1994		<i>Previous code(s): C12-G05</i>	
	Includes atherosclerosis.		C14-H01B	. Antiproliferative, inhibitor of cell division, cytostatic, cytoprotective	1994
	<i>Previous code(s): C12-H03</i>			<i>Previous code(s): C12-D07, C12-E08, C12-G07</i>	
C14-F08	<b>Coagulant</b>	1994	C14-H01C	. Dermatological cancers	2006
	<i>Previous code(s): C12-H04</i>				
C14-F09	<b>Hypoglycaemic</b>	1994			
	Treatment of diabetic symptoms is coded C14-S04.				
	<i>Previous code(s): C12-H05</i>				
C14-F10	<b>Hyperglycaemic</b>	1994			
	<i>Previous code(s): C12-H05</i>				
C14-F11	<b>Plasma and blood substitutes</b>	1994			
	<i>Previous code(s): C12-H06</i>				

C14-H01D	. Endocrine cancers	2006	C14-H01K2	.. Larynx cancers	2006
C14-H01D1	.. Breast cancers	2006	C14-H01K3	.. Lung cancers	2006
C14-H01D2	.. Thyroid cancers	2006	C14-H01L	. Other cancers	2006
C14-H01E	. Gastrointestinal cancers	2006	C14-H01L1	.. Multiple myelomas	2006
C14-H01E1	.. Colon cancers	2006	C14-H01M	. Larynx cancer	2005-2006
C14-H01E2	.. Oesophageal cancers	2006		<i>Now coded as C14-H01K2</i>	
C14-H01E3	.. Gall bladder cancers	2006	C14-H01N	. Lung cancer	2005-2006
C14-H01E4	.. Intestinal cancers	2006		<i>Now coded as C14-H01K3</i>	
C14-H01E5	.. Hepatic cancers	2006	C14-H01P	. Multiple myeloma	2005-2006
C14-H01E6	.. Pancreatic cancers	2006		<i>Now coded as C14-H01L1</i>	
C14-H01E7	.. Rectal cancers	2006	C14-H01Q	. Non-Hodgkin's lymphoma	2005-2006
C14-H01E8	.. Stomach cancers	2006		<i>Now coded as C14-H01G2</i>	
C14-H01F	. Genitourinary cancers	2006	C14-H01R	. Oesophageal cancer	2005-2006
C14-H01F1	.. Cervical/uterine cancers	2006		<i>Now coded as C14-H01E2</i>	
C14-H01F2	.. Kidney cancers	2006	C14-H01S	. Ovarian cancer	2005-2006
C14-H01F3	.. Ovarian cancers	2006		<i>Now coded as C14-H01F3</i>	
C14-H01F4	.. Prostate cancers	2006	C14-H01T	. Pancreatic cancer	2005-2006
C14-H01F5	.. Testicular cancers	2006		<i>Now coded as C14-H01E6</i>	
C14-H01F6	.. Bladder cancers	2006	C14-H01U	. Prostate cancer	2005-2006
C14-H01G	. Immunological cancers	2006		<i>Now coded as C14-H01F4</i>	
C14-H01G1	.. Hodgkin's lymphoma	2006	C14-H01V	. Rectal cancer	2005-2006
C14-H01G2	.. Non-Hodgkin's lymphoma	2006		<i>Now coded as C14-H01E7</i>	
C14-H01H	. Musculoskeletal cancers	2006	C14-H01W	. Skin melanoma	2005-2006
C14-H01H1	.. Osteocancers	2006		<i>Now coded as C14-H01C</i>	
C14-H01H2	.. Sarcoma	2006	C14-H01X	. Stomach cancer	2005-2006
C14-H01J	. Neurological cancers	2006		<i>Now coded as C14-H01E8</i>	
C14-H01J1	.. Brain tumours	2006	C14-H01Y	. Testicular cancer	2005-2006
C14-H01K	. Oral and respiratory cancers	2006		<i>Now coded as C14-H01F5</i>	
C14-H01K1	.. Buccal cavity and pharynx cancers	2006	C14-H01Z	. Thyroid cancer	2005-2006
				<i>Now coded as C14-H01E2</i>	
			C14-H02	<b>Mutagen, carcinogen</b>	1994
				<i>Previous code(s): C12-G07</i>	
			C14-H03	<b>Apoptotic</b>	2002
			C14-H04	<b>Anti-apoptotic</b>	2002
			C14-H05	<b>Antiproliferative (non-cancerous)</b> e.g. Hyperplasia.	2006

<b>C14-J</b>	<b>DRUGS ACTING ON THE MUSCULAR AND NERVOUS SYSTEMS</b> The codes marked with * are also used for agonist/mimetic or receptor agonist/mimetic activities, e.g. dopamine receptor agonist is coded dopaminergic C14-J02C2. The codes marked with ** are also used for antagonist/inhibitor or receptor antagonist/inhibitor activities.	
		1994
<b>C14-J01</b>	<b>CNS active general and other</b> Covers terms such as cerebroprotective and neuroprotective.  <i>Previous code(s): C12-C10</i>	1994
<b>C14-J01A</b>	<b>. Stimulants general and other</b>  <i>Previous code(s): C12-C06</i>	1994
<b>C14-J01A1</b>	<b>.. Antidepressant</b>  <i>Previous code(s): C12-C06</i>	1994
<b>C14-J01A2</b>	<b>.. Analeptic</b>  <i>Previous code(s): C12-C03</i>	1994
<b>C14-J01A3</b>	<b>.. Antiparkinsonian</b>  <i>Previous code(s): C12-C04</i>	1994
<b>C14-J01A4</b>	<b>.. Alzheimer's, Huntington's, senility, senile dementia, cognitive enhancer, anti-amnesia, nootropics</b>  <i>Previous code(s): C12-C10, C12-G04A</i>	1994
<b>C14-J01B</b>	<b>. Depressants general and other</b>  <i>Previous code(s): C12-C05</i>	1994
<b>C14-J01B1</b>	<b>.. Hypnotic</b>  <i>Previous code(s): C12-C07</i>	1994
<b>C14-J01B2</b>	<b>.. Sedative</b>  <i>Previous code(s): C12-C08</i>	1994
<b>C14-J01B3</b>	<b>.. Antipsychotic, neuroleptic, antischizophrenic</b>  <i>Previous code(s): C12-C10, C12-E02</i>	1994
<b>C14-J01B4</b>	<b>.. Tranquilliser, anxiolytic</b>  <i>Previous code(s): C12-C10</i>	1994
<b>C14-J02</b>	<b>Autonomic NS active general and other</b>  <i>Previous code(s): C12-E01</i>	1994
<b>C14-J02A</b>	<b>. Parasympathetic stimulants, mimetics general and other*</b>  <i>Previous code(s): C12-E05</i>	1994
<b>C14-J02A1</b>	<b>.. Cholinergic (acetyl choline potentiators)*</b>  <i>Previous code(s): C12-E05</i>	1994
<b>C14-J02A2</b>	<b>.. Muscarinic*</b>  <i>Previous code(s): C12-E05</i>	1994
<b>C14-J02B</b>	<b>. Parasympathetic depressant, parasympatholytic general and other**</b>  <i>Previous code(s): C12-E04</i>	1994
<b>C14-J02B1</b>	<b>.. Anticholinergic**</b>  <i>Previous code(s): C12-E04</i>	1994
<b>C14-J02B2</b>	<b>.. Antimuscarinic**</b>  <i>Previous code(s): C12-E04</i>	1994
<b>C14-J02C</b>	<b>. Sympathetic stimulants general and other**</b>  <i>Previous code(s): C12-E07</i>	1994
<b>C14-J02C1</b>	<b>.. Adrenergic, adrenaline potentiator (alpha and beta)*</b>  <i>Previous code(s): C12-E07</i>	1994
<b>C14-J02C2</b>	<b>.. Dopaminergic*</b>  <i>Previous code(s): C12-E07</i>	1994
<b>C14-J02D</b>	<b>. Sympathetic depressants, sympatholytic general and other**</b>  <i>Previous code(s): C12-E06</i>	1994
<b>C14-J02D1</b>	<b>.. Alpha-adrenergic blocker**</b>  <i>Previous code(s): C12-E06A</i>	1994
<b>C14-J02D2</b>	<b>.. Beta-adrenergic blocker**</b>  <i>Previous code(s): C12-E06B</i>	1994
<b>C14-J02D3</b>	<b>.. Antidopaminergic**</b>  <i>Previous code(s): C12-E06</i>	1994
<b>C14-J03</b>	<b>Serotonergic*</b>  <i>Previous code(s): C12-G04</i>	1994
<b>C14-J04</b>	<b>Antiserotonergic**</b>  <i>Previous code(s): C12-G01</i>	1994
<b>C14-J05</b>	<b>Muscular active general and other (inotropic)</b>  <i>Previous code(s): C12-E02</i>	1994
<b>C14-J05A</b>	<b>. Muscle relaxant (negatively inotropic)</b>  <i>Previous code(s): C12-E02</i>	1994
<b>C14-J05B</b>	<b>. Mydriatic/myopic/hyperopic</b>  <i>Previous code(s): C12-E03</i>	1994
<b>C14-J05C</b>	<b>. Muscle contractant (positively inotropic)</b>  <i>Previous code(s): C12-E02</i>	1994

C14-J05D	. Antispastic, antispasmodic, spasmolytic, spasm treatment	1994	C14-L01A4	.. Lyase agonist	2007
	<i>Previous code(s): C12-E02, C12-E04</i>		C14-L01A5	.. Isomerase agonist	2007
C14-J05E	. Duchenne's muscular dystrophy treatment	2002	C14-L01A6	.. Synthetase agonist	2007
C14-J06	<b>Convulsant</b>	1994	C14-L01B	. Cannabinoid receptor agonist	2006
	<i>Previous code(s): C12-D10</i>		C14-L01C	. PPAR agonist Peroxisome proliferator-activated receptor agonist.	2006
C14-J07	<b>Anticonvulsant</b>	1994			
	<i>Previous code(s): C12-D04</i>		C14-L01D	. Nitric oxide agonist	2007
C14-K	<b>DRUGS ACTING ON THE RESPIRATORY SYSTEM</b>	1994	C14-L02	<b>Angiotensin agonist/mimetic</b> N.B. Angiotensin antagonists/inhibitors are coded C14-F02B1.	1994
C14-K01	<b>Respiratory active general and other</b> Including anoxia, cystic fibrosis and bronchitis treatment.	1994	C14-L03	<b>Interleukin agonist/mimetic</b>	1994
	<i>Previous code(s): C12-K06</i>		C14-L04	<b>Prostaglandin, leukotriene, thromboxane agonist/mimetic</b>	1994
C14-K01A	. Antiasthmatic	1994	C14-L05	<b>Histaminergic, histamine agonist/mimetic</b>	1994
	<i>Previous code(s): C12-D02, C12-K02</i>		C14-L06	<b>Antagonist/inhibitor/antimetabolite general and other</b>	1994
C14-K01B	. Antitussive	1994		<i>Previous code(s): C12-G01</i>	
	<i>Previous code(s): C12-K01</i>		C14-L06B	. Cannabinoid receptor antagonist	2006
C14-K01C	. Bronchoconstrictor	1994	C14-L06C	. PPAR antagonist Peroxisome proliferator-activated receptor antagonist.	2006
	<i>Previous code(s): C12-K06</i>		C14-L06D	. Nitric oxide antagonist	2007
C14-K01D	. Bronchodilator	1994			
	<i>Previous code(s): C12-K02</i>		C14-L07	<b>Interleukin antagonist/inhibitor</b>	1994
C14-K01E	. Decongestant, expectorant, mucolytic	1994		<i>Previous code(s): C12-G01</i>	
	<i>Previous code(s): C12-K05</i>		C14-L08	<b>Prostaglandin, leukotriene, thromboxane antagonist/inhibitor</b>	1994
C14-K01F	. Adult respiratory distress syndrome (ARDS)	2002		<i>Previous code(s): C12-G01</i>	
C14-L	<b>AGONISTS/MIMETICS AND ANTAGONISTS/INHIBITORS NOT COVERED ELSEWHERE</b> The codes in this section are also used for receptor agonists/mimetics and receptor antagonists/mimetics, e.g. histamine receptor agonist is coded C14-L05.	1994	C14-L09	<b>Histamine antagonist/inhibitor general and other</b>	1994
				<i>Previous code(s): C12-D06</i>	
C14-L01	<b>Agonist/mimetic general and other</b>	1994	C14-L10	<b>H1 antagonist/inhibitor</b>	1994
				<i>Previous code(s): C12-D06B</i>	
C14-L01A	. Enzyme agonist/mimetic	2005	C14-L11	<b>H2 antagonist/inhibitor</b>	1994
C14-L01A1	.. Oxidoreductase agonist	2007		<i>Previous code(s): C12-D06A</i>	
C14-L01A2	.. Transferase agonist	2007	C14-L12	<b>Proton pump inhibitors</b>	2006
C14-L01A3	.. Hydrolase agonist	2007		<i>Previous code(s): C14-L06</i>	



<b>C14-M</b>	<b>ANTIDOTES</b>	<b>1994</b>		<b>C14-N05A</b>	<b>. Mouth disorder</b> E.g. cold sores and xerostomia (chronic dry mouth).	<b>2005</b>
	<i>Previous code(s): C12-J05</i>					
<b>C14-M01</b>	<b>Antidote general and other</b>	<b>1994</b>		<b>C14-N05B</b>	<b>. Throat disorder</b> Covers throat disorders, but excludes disorders of the esophagus.	<b>2005</b>
	<i>Previous code(s): C12-J05</i>					
<b>C14-M01A</b>	<b>. Alcoholism treatment</b>	<b>1994-2006</b>		<b>C14-N06</b>	<b>Dental general and other</b>	<b>1994</b>
	<i>Previous code(s): C12-J05A</i>				<i>Previous code(s): C12-L03</i>	
<b>C14-M01B</b>	<b>. Antismoking</b>	<b>1994-2006</b>		<b>C14-N06A</b>	<b>. Anticaries/antiplaque</b>	<b>1994</b>
	<i>Previous code(s): C12-J05B</i>				<i>Previous code(s): C12-A01, C12-L03</i>	
<b>C14-M01C</b>	<b>. Antidrug addiction</b>	<b>1994-2006</b>		<b>C14-N06B</b>	<b>. Periodontal</b>	<b>1994</b>
	<i>Previous code(s): C12-J05</i>				<i>Previous code(s): C12-L03, C12-L04</i>	
<b>C14-M01D</b>	<b>. Antiheavy metal poisoning</b>	<b>1994</b>		<b>C14-N07</b>	<b>Urogenital/anorectal disease treatment general and other</b>	<b>1994</b>
	<i>Previous code(s): C12-J05C</i>				<i>Previous code(s): C12-A05, C12-D07, C12-G03, C12-G04</i>	
<b>C14-M01E</b>	<b>. Pesticide/herbicide antidote</b> Includes herbicide safeners prior to 2009.	<b>1994</b>		<b>C14-N07A</b>	<b>. Prostate</b>	<b>1994</b>
	<i>Previous code(s): C12-J05D</i>				<i>Previous code(s): C12-G03, C12-G04</i>	
<b>C14-M01F</b>	<b>. Protecting plants from poisons</b>	<b>1994</b>		<b>C14-N07B</b>	<b>. Cystitis</b>	<b>1994</b>
	<i>Previous code(s): C12-J05E</i>				<i>Previous code(s): C12-D07</i>	
<b>C14-M02</b>	<b>Agrochemical antidote general</b>	<b>2006</b>		<b>C14-N07C</b>	<b>. Venereal</b>	<b>1994</b>
					<i>Previous code(s): C12-A05</i>	
<b>C14-M02A</b>	<b>. Chemoprotectant</b>	<b>2006</b>		<b>C14-N07D</b>	<b>. Incontinence treatment</b>	<b>1994</b>
					<i>Previous code(s): C12-G03</i>	
<b>C14-M02B</b>	<b>. Radioprotectant</b>	<b>2006</b>		<b>C14-N08</b>	<b>Diuretic</b>	<b>1994</b>
					<i>Previous code(s): C12-G03</i>	
<b>C14-N</b>	<b>ORGANS</b>	<b>1994</b>		<b>C14-N09</b>	<b>Antidiuretic</b>	<b>1994</b>
					<i>Previous code(s): C12-G03</i>	
<b>C14-N01</b>	<b>Bone disorder treatment, osteoporosis</b>	<b>1994</b>		<b>C14-N10</b>	<b>Kidney</b>	<b>1994</b>
	<i>Previous code(s): C12-J08</i>				<i>Previous code(s): C12-G03</i>	
<b>C14-N01A</b>	<b>. Osteoporosis</b>	<b>2005</b>		<b>C14-N11</b>	<b>Thyroid</b>	<b>1994</b>
					<i>Previous code(s): C12-G06</i>	
<b>C14-N01B</b>	<b>. Fractures, disorders of healing and osteogenesis</b>	<b>2005</b>		<b>C14-N12</b>	<b>Liver</b>	<b>1994</b>
					<i>Previous code(s): C12-G02</i>	
<b>C14-N02</b>	<b>Ear disorder treatment</b>	<b>1994</b>		<b>C14-N13</b>	<b>Pancreas</b>	<b>1994</b>
	<i>Previous code(s): C12-L04</i>				<i>Previous code(s): C12-G02</i>	
<b>C14-N03</b>	<b>Eye disorder treatment</b>	<b>1994</b>		<b>C14-N14</b>	<b>Uterus</b> Premenstrual syndrome and dysmenorrhea are covered here but labour inducing drugs are coded with abortifacients under C14-P01B.	<b>1994</b>
	<i>Previous code(s): C12-L04</i>				<i>Previous code(s): C12-E09</i>	
<b>C14-N03A</b>	<b>. Glaucoma</b>	<b>2005</b>				
<b>C14-N04</b>	<b>Nose disorder treatment</b>	<b>1994</b>				
	<i>Previous code(s): C12-L04</i>					
<b>C14-N05</b>	<b>Mouth/throat disorder treatment</b>	<b>1994</b>				
	<i>Previous code(s): C12-L04</i>					

C14-N15	<b>Spleen</b> <i>Previous code(s): C12-G02</i>	1994	C14-P03	<b>Antibabortive</b> <i>Previous code(s): C12-E09</i>	1994
C14-N16	<b>Brain and spinal cord</b> Including meningitis, encephalitis, stroke treatment. <i>Previous code(s): C12-C10, C12-E01</i>	1994	C14-P04	<b>Sexual dysfunction</b> Sexual dysfunction general.	2006
C14-N16A	. <b>Bovine spongiform encephalopathy (BSE) ("Mad cow disease")</b>	2002	C14-P04A	. <b>Male sexual dysfunction</b>	2006
C14-N16B	. <b>Creutzfeld Jakob disease (CJD)</b>	2002	C14-P04B	. <b>Female sexual dysfunction</b>	2006
C14-N16C	. <b>Kuru</b>	2005	<hr/>	<hr/>	
C14-N16D	. <b>Scrapie</b> A fatal degenerative disease affecting the CNS of sheep and goats.	2005	C14-R	<b>COSMETICS</b> <i>Previous code(s): C12-L02</i>	1994
C14-N17	<b>Skin treatment general and other</b> Fungal skin diseases are coded under C14-A04. <i>Previous code(s): C12-A07</i>	1994	C14-R01	<b>Cosmetic general and other</b> <i>Previous code(s): C12-L02</i>	1994
C14-N17A	. <b>Burn</b> <i>Previous code(s): C12-A07</i>	1994	C14-R02	<b>Hair preparation</b> <i>Previous code(s): C12-L05</i>	1994
C14-N17B	. <b>Wound other (physical trauma)</b> <i>Previous code(s): C12-A07</i>	1994	C14-R03	<b>Antiperspirant</b> <i>Previous code(s): C12-L01</i>	1994
C14-N17C	. <b>Psoriasis, dermatitis</b> <i>Previous code(s): C12-A07</i>	1994	C14-R04	<b>Perfume</b> <i>Previous code(s): C12-L07</i>	1994
C14-N17D	. <b>Acne</b> <i>Previous code(s): C12-A07</i>	1994	C14-R05	<b>Sunscreen agent</b> <i>Previous code(s): C12-L08</i>	1994
C14-N17E	. <b>Dandruff and seborrhea</b>	2005	<hr/>	<hr/>	
C14-N17F	. <b>Antiscarring</b>	2005	C14-S	<b>MISCELLANEOUS ACTIVITY TERMS</b>	1994
C14-N18	<b>Mammary gland</b> Including mastitis.	2002	C14-S01	<b>Multiple sclerosis treatment, demyelinating diseases</b> <i>Previous code(s): C12-E01</i>	1994
<hr/>	<hr/>		C14-S02	<b>Dwarfism treatment</b> <i>Previous code(s): C12-G04</i>	1994
C14-P	<b>DRUGS ACTING ON THE REPRODUCTIVE SYSTEM</b>	1994	C14-S03	<b>Gene therapy general</b>	1994
C14-P01	<b>Contraceptive general and other</b> <i>Previous code(s): C12-K03</i>	1994	C14-S03A	. <b>Gene therapy</b>	2002
C14-P01A	. <b>Male, spermicide</b> <i>Previous code(s): C12-K03</i>	1994	C14-S03B	. <b>Antisense therapy</b>	2002
C14-P01B	. <b>Female, abortifacient, antiovolatory</b> <i>Previous code(s): C12-K03</i>	1994	C14-S03C	. <b>RNA interference</b>	2005
C14-P02	<b>Infertility treatment</b>	1994	C14-S04	<b>Diabetes</b> This code is used when a drug targets the symptoms and associated disorders. Hypoglycaemic is coded C14-F09. <i>Previous code(s): C12-H05</i>	1994
			C14-S04A	. <b>Type II diabetes</b> Also known as adult onset diabetes or non-insulin dependent diabetes.	2005

C14-S05	<b>Shock treatment general (excluding anaphylactic)</b> Anaphylactic shock is coded C14-G02B. <i>Previous code(s): C12-A07</i>	1994	C14-S14A	<b>. Cartilage and connective tissue disorders</b>	2009
C14-S06	<b>Toxic (septic) shock</b> <i>Previous code(s): C12-A01, C12-A06</i>	1994	C14-S14B	<b>. Soft tissue disorders</b>	2009
C14-S07	<b>Traumatic shock</b> <i>Previous code(s): C12-C10</i>	1994	C14-S15	<b>Broad formulation</b> Patent is concerned with the formulation type rather than the drugs contained in it.	2005
C14-S08	<b>Antioxidant/free radical scavenger</b>	1994	C14-S16	<b>Many diseases treated</b> More than 15 diseases are said to be treated. Specific codes for the individual disease are still included.	2005
C14-S09	<b>Synergist</b> <i>Previous code(s): C12-C09</i>	1994	C14-S17	<b>Agricultural activity</b>	2005
C14-S11	<b>Vaccine general</b> <i>Previous code(s): C02-V02</i>	1994	C14-S18	<b>Drug combination</b> Used when specific combination of drugs are claimed.	2006
C14-S11A	<b>. Antiviral vaccine</b> <i>Previous code(s): C02-V02</i>	1994	C14-S20	<b>Genetic disorder</b>	2006
C14-S11B	<b>. Other antimicrobial vaccine</b> For example antibacterial. <i>Previous code(s): C02-V02</i>	1994	C14-S20A	<b>. Chromosomal abnormality disorder</b>	2006
C14-S11B1	<b>.. Antibacterial vaccine</b>	2005	C14-S21	<b>Cell therapy</b>	2006
C14-S11B2	<b>.. Antiprotozoal vaccine</b>	2005	C14-S22	<b>Prophylaxis</b> Used only when a compound or formulation is solely for prophylaxis or prevention of a disorder	2009
C14-S11B3	<b>.. Antiparasitic vaccine</b>	2005	C14-S23	<b>Unspecified activity</b> Applied to documents when an agrochemical formulation/substance with agrochemical activity is claimed but no specific disorders are mentioned as being treated i.e. when no other activity codes can be applied.	2009, 2010
C14-S11C	<b>. Anticancer vaccine</b> <i>Previous code(s): C02-V02</i>	1994	C14-S25	<b>Chemotherapy</b>	2010
C14-S11D	<b>. Vaccine type</b>	2005	C14-S26	<b>Radiotherapy</b>	2010
C14-S11D1	<b>.. Whole-killed (inactive) vaccine</b>	2005	C14-S27	<b>Photon therapy</b> Includes treatment using high energy photons.	2010
C14-S11D2	<b>.. Live-attenuated (weakened) vaccine</b>	2005	C14-T	<b>FERTILISERS/SOIL IMPROVING GENERAL</b> <i>Previous code(s): C12-N09, C12-N10</i>	1994
C14-S11D3	<b>.. Synthetic/genetically engineered vaccine</b>	2005	C14-T01	<b>Soil improving (other than nutrients) Synthetic growth media</b> <i>Previous code(s): C12-N08</i>	1994
C14-S12	<b>Veterinary</b> <i>Previous code(s): C12-L09</i>	1994	C14-T01A	<b>. Synthetic growth medium</b> Can be used in conjunction with other C14 codes for general agricultural activity.	2005
C14-S13	<b>Metabolic disorders</b> Includes enzyme deficiencies and conditions arising from such.	2005			
C14-S13A	<b>. Acidosis</b>	2005			
C14-S14	<b>Joint disorders general</b> Includes conditions affecting tendons and bursa.	2005			

C14-T01B	. Erosion inhibition of soil	2005
C14-T01C	. Frost protection of soil	2005
C14-T01D	. Nitrification inhibitor	2005
C14-T02	<b>Moisture conservation (mulches)</b> <i>Previous code(s): C12-P10</i>	1994
C14-T03	<b>Soil nutrients (inorganic)</b> <i>Previous code(s): C12-N09</i>	1994
C14-T04	<b>Soil nutrients (others)</b> <i>Previous code(s): C12-N10</i>	1994
C14-T05	<b>Trace element fertilisers</b>	2005
C14-U	<b>PLANT GROWTH REGULANTS/ PROTECTANTS</b>	1994
C14-U01	<b>Plant growth regulants (general), phytohormones</b> <i>Previous code(s): C12-P01</i>	1994
C14-U01A	. <b>Defoliants, desiccants, chemical mowing</b> <i>Previous code(s): C12-P02</i>	1994
C14-U01B	. <b>Fruit drops and set, thinning of fruit</b> <i>Previous code(s): C12-P03</i>	1994
C14-U01C	. <b>Growth stimulants</b> <i>Previous code(s): C12-P04</i>	1994
C14-U01D	. <b>Rooting compounds (rhizogenes)</b> <i>Previous code(s): C12-P08</i>	1994
C14-U01E	. <b>Sprouting inhibitors, seed germination inhibitors, growth inhibitors</b> <i>Previous code(s): C12-P09</i>	1994
C14-U01F	<b>Inducing flowering in plants</b>	2006
C14-U02	<b>Soil fumigants, seed protectants and sterilants, plant protectants (general)</b> <i>Previous code(s): C12-N07</i>	1994
C14-U03	<b>Conferring herbicide resistance to plants</b>	2006
C14-U04	<b>Conferring pest resistance to plants</b> Conferring pest resistance (e.g. fungi, insects) to plants.	2006

C14-U05	<b>Conferring stress tolerance to plants</b> Conferring stress tolerance (e.g. drought, heat) to plants.	2006
C14-V	<b>HERBICIDES</b>	1994
C14-V01	<b>Herbicide (total and general)</b> <i>Previous code(s): C12-P05</i>	1994
C14-V02	<b>Herbicide (selective) (general and others)</b> For a specific selective herbicide the code for the crop-type protected applies e.g. C14-V02B applies for selectively killing weeds in rice fields.	1994
	<i>Previous code(s): C12-P06</i>	
C14-V02A	. <b>Aromatic crops</b> Includes herbs. <i>Previous code(s): C12-P06</i>	1994
C14-V02B	. <b>Cereal crop</b> Includes rice. <i>Previous code(s): C12-P06</i>	1994
C14-V02C	. <b>Fruit crop</b> <i>Previous code(s): C12-P06</i>	1994
C14-V02D	. <b>Oil crop</b> Includes nuts, sunflower, rape. <i>Previous code(s): C12-P06</i>	1994
C14-V02E	. <b>Ornamental crop</b> <i>Previous code(s): C12-P06</i>	1994
C14-V02F	. <b>Vegetable crop</b> <i>Previous code(s): C12-P06</i>	1994
C14-V03	<b>Post-emergence, pre-emergence general</b> <i>Previous code(s): C12-P06</i>	1994
C14-V03A	. <b>Post-emergence</b> <i>Previous code(s): C12-P06</i>	1994
C14-V03B	. <b>Pre-emergence</b> <i>Previous code(s): C12-P06</i>	1994
C14-V04	<b>Herbicide safener</b> <i>Previous code(s): C14-M01E</i>	2009

C14-W	<b>INDUSTRIAL</b> Covers industrial applications of compounds/compositions e.g. biocides used in industrial cleaning compositions. This code applies in addition to any other property codes.  1994
C14-X	<b>DOMESTIC</b> Covers domestic applications of compounds/compositions e.g. fungicides used decorative materials. This code applies in addition to any other property codes.  1994
C14-Y	<b>GREEN CHEMISTRY</b> Used when processes/productions are kinder to the environment. Includes biodegradable  2006



## **D:**

### **FOOD, FERMENTATION, DISINFECTANTS, DETERGENTS**

D01	Baking, Edible Doughs
D02	Processing Meat, Poultry, Fish
D03	Foodstuffs and Treatment
D04	Treating Water, Waste Water, and Sewage
D05	Fermentation Industry
D06	Sugar and Starch Industry
D07	Skins, Hides, Pelts, Leather, Tobacco
D08	Cosmetics, Dental, Toilet Preparations
D09	Sterlising and Disinfecting, Bandages and Dressings
D10	Animal and Vegetable Oils
D11	Detergents, Soap, Glycerol





## D: FOOD, FERMENTATION, DISINFECTANTS, DETERGENTS

In addition to coding a general process (e.g. for dehydrating food in D03-K09), a preferred use is also coded (e.g. especially for production of dried milk, D03-B07).

Normally only main inventive features are coded, e.g. machine for filling pies would be D01-A only - not also under any of a wide range of meat, fruit etc. fillings. However, production of meat filling for pies or sausages would only be coded under the filling.

### D01 BAKING, EDIBLE DOUGHS

D01-A	HANDLING DOUGH AND BAKED ARTICLES	
D01-A01	Bakery ovens	1972
D01-A02	Uncooked dough cutting, shaping, dispensing equipment	1972
D01-A03	Equipment for transporting batter, dough, bakery products	1972
D01-A04	Containers for dough, bakery products Including raising boxes	1972
D01-A05	Equipment for mixing, rolling dough, batter kneading.	1972
D01-A06	Treatment of bakery products after cooking e.g. cutting, filling	1972
D01-A	General and others	

D01-B	BAKERY PRODUCTS, FLOUR, DOUGH	
D01-B01	Additives for flour and dough Including fats	
D01-B02	Bakery products general For bakery products containing meat also search D02-A03:	
D01-B02A	. Bread Including bread crumbs, fried bread and sandwiches. For the product to be considered as bread it must contain yeast as a leavening agent.	1986
D01-B02B	. Cake This must have a leavening agent other than yeast such as baking powder or have air or gas bubbles introduced mechanically such as by vigorous whisking (excluding rice cake)	1986
D01-B02C	. Biscuits, crackers, "cookies", rice crackers, unleavened bread	1986
D01-B02D	. Pizza bases, pastry products, pastry cases e.g. for meringues	1986
D01-B02E	. Noodles, pasta, spaghetti, vermicelli, macaroni	1986
D01-B02F	. Batter products, pancakes, waffles, fried batter coatings, artificial chips from dough For batter coatings D03-H01S is also searchable.	1986
D01-B	General and others	

## D02 PROCESSING MEAT, POULTRY, FISH

D02-A	PROCESSING MEAT OR FISH	
D02-A01	Processing whole meat, hams and poultry	1971
D02-A02	Processing whole fish e.g. degutting	1971
D02-A03	Meat, poultry or fish products, general For bakery products containing meat also search D01-B02:	1971
D02-A03A	. Fish paste, fish meal, fish flakes, fish roe (real or artificial), fish extracts For fish extracts used as flavouring also search D03-H01C	1986
D02-A03B	. Minced meat, meat paste, chopped meat Including chicken, turkey, lamb, beef, pork, etc. but excluding sausages	1986
D02-A03C	. Sausages, processing meat for sausages, but excluding skins	1986
D02-A03D	. Sausage skins and devices for filling skins	1986
D02-A03E	. Artificial meat, excluding sausages	1986
D02-A	General and others	

## D03 FOODSTUFFS AND TREATMENT

D03-A	PRESERVATION	
D03-A01	Meat or sausages	
D03-A02	Fish, fish roe and products	
D03-A03	Eggs and products Including turtle eggs	
D03-A04	Vegetables, fruit or mushrooms	
D03-A05	Edible seeds e.g. cereals and nuts	
D03-A	General and others	
D03-B	MILK AND MILK PRODUCTS	
D03-B01	Production of curds in milk	1972
D03-B02	Separation of curds and whey	1972
D03-B03	Moulding cheese	1972
D03-B04	Additives for cheese	1972
D03-B05	Transporting cheese and packing	1972
D03-B06	Cheese (other than above) Including stillage, maturing and bean curd (tofu)	1972
D03-B07	Milk concentrates e.g. powder	1972
D03-B08	Milk additives	1972
D03-B09	Testing milk	1972
D03-B10	Transporting milk; carriers for milk	1972
D03-B11	Synthetic milk Including bean milk	1972
D03-B12	Butter Excluding butter substitutes, see D03-C: <i>Previous code(s): D03-B</i>	1994
D03-B13	Cream <i>Previous code(s): D03-B</i>	1994
D03-B14	Yoghurt <i>Previous code(s): D03-B</i>	1994
D03-B	General and others	

D03-C	BUTTER SUBSTITUTES, EDIBLE OILS, FATS		D03-E	COCOA AND CONFECTIONERY	
D03-C	General		D03-E01	Transporting confectionery	1972
D03-C01	Cooking and edible oils (liquid)	1994	D03-E02	Coating confectionery and ice cream	1972
	<i>Previous code(s): D03-C</i>		D03-E03	Shaping confectionery and ice cream	1972
D03-C02	Margarine, spreads and cooking fats (solid)	1994	D03-E04	Packing confectionery and ice cream	1972
	<i>Previous code(s): D03-C</i>		D03-E05	Cooking and mixing ingredients for confectionery	1972
D03-D	COFFEE, TEA AND SUBSTITUTES		D03-E06	Dispenser for confectionery	
D03-D	Coffee, tea and substitutes, general			Including filling	1972
D03-D01	Coffee general	1986	D03-E07	Chocolate and cocoa products	1972
D03-D01A	. Packaging		D03-E08	Ice cream and similar frozen products	1972
	Including coffee bags	1986	D03-E09	Chewing gum	1994
D03-D01B	. Extraction			<i>Previous code(s): D03-E</i>	
	Including decaffeination, concentration, freeze drying and freeze dried coffee	1986	D03-E10	Candy general	2002
D03-D01C	. Grinding, cutting	1986	D03-E10A	. Hard candy	2002
D03-D01D	. Steaming, roasting, drying		D03-E10A1	.. Chocolate	2002
	Excludes extraction D03-D01B	1986	D03-E10A2	.. Non-chocolate	2002
D03-D02	Tea general	1986	D03-E10B	. Chewy candy	2002
D03-D02A	. Packaging		D03-E10B1	.. Chocolate	2002
	Including tea bags	1986	D03-E10B2	.. Non-chocolate	2002
D03-D02B	. Extraction		D03-E	General and others	2002
	Including decaffeination, concentration, freeze drying	1986			
D03-D02C	. Grinding, cutting	1986			
D03-D02D	. Steaming, drying, fermenting, roasting				
	Excludes extraction D03-D02B	1986			
D03-D03	Artificial tea or coffee or beverages such as herbal tea				
	Excluding D03-D01: and D03-D02: search also D03-H01G	1986			

D03-F	PROTEINS, PHOSPHATIDES	D03-H	FOODSTUFFS, GENERAL AND PRESERVATION
D03-F01	Protein recovery - from other sources 1972	D03-H	Foodstuffs not provided for, general
D03-F02	Protein recovery - from soya beans 1972	D03-H01	Foodstuff general
D03-F03	Protein recovery - from micro-organisms 1972	D03-H01	Foodstuffs; non-alcoholic beverages and preparations not provided for elsewhere, general
D03-F04	Protein recovery - from animal or fish waste 1972	D03-H01A	. Sweetening agents. Not additionally searchable under D03-H01T. 1972
D03-F05	Shaping of protein (threads and films) 1972	D03-H01B	. Chemical flavouring agents See also D03-H01D 1972
D03-F06	Protein compositions 1972	D03-H01B1	.. Taste masking 2002
D03-F07	Phosphatides 1972	D03-H01B2	.. Taste enhancing 2002
D03-F	General and others	D03-H01C	. Flavouring agents of unknown structure e.g. natural extracts (also D03-H01D) 1972
D03-G	Animal feeds	D03-H01D	. Flavouring agents of special form 1972
D03-G01	Fodder additives 1971	D03-H01E	. Food colourants (general) 1972
D03-G02	From microorganisms e.g. yeasts 1972	D03-H01E1	. Natural food colorant 2007 <i>Previous code(s): D03-H01E</i>
D03-G03	From animals e.g. offal, excrement 1972	D03-H01E2	. Synthetic food colorant 2007 <i>Previous code(s): D03-H01E</i>
D03-G04	From plants e.g. beet residues 1972	D03-H01F	. Carbonated non-alcoholic beverages 1972
D03-G05	From fish; insects e.g. stick water 1972	D03-H01G	. Non-alcoholic beverages Except D03-H01F 1972
D03-G06	Special shape animal feeds Including synthetic dog bones 1972	D03-H01H	. Fluid foods e.g. sauces, soups, mayonnaise except D03-H01F,G 1972
D03-G	General and others	D03-H01J	. Gelled food products, thickeners 1972
		D03-H01K	. Foods with special shape Except D03-H01J 1972
		D03-H01L	. Dehydrated or concentrated foods 1972
		D03-H01M	. Partially cooked foods Except D03-H01L 1972
		D03-H01N	. Emulsifiers for food 1972
		D03-H01P	. Antioxidants for food 1972

D03-H01Q	. Chemical stabilisers for food, humectants Except D03-H01P,N,R	1972	D03-H02E	. By other additives Except antioxidants - see D03-H01P	1986
D03-H01R	. Binders for food	1972	D03-H02F	. By sterile packaging e.g. canning or sealed bags. (Search also D03-K and other D03-H02: codes if applicable e.g. for heat sterilisation with canning, search D03-H02F and D03-H02B.)	1986
D03-H01S	. Coatings for food Except D03-H01R	1972			
D03-H01T	. Low calorie, health and dietary foods, general Except D03-H01A	1972	D03-J	FOODSTUFF MACHINERY FOR	
D03-H01T1	. Dietary fibre (bran/roughage etc.) <i>Previous code(s): D03-H01T</i>	1994	D03-J01	Treating grain	1972
D03-H01T2	. Other health <i>Previous code(s): D03-H01T</i>	1994	D03-J02	Treating nuts Including peanuts and coffee beans	1972
D03-H01T2A	.. Probiotics/prebiotics	2006	D03-J03	Removing stones and pips from fruit	1972
D03-H01T2B	.. Others	2006	D03-J04	Peeling fruit Including pumpkins, melons, marrows and zucchini (courgettes)	1972
D03-H01T3	. Low calorie <i>Previous code(s): D03-H01T</i>	1994	D03-J05	Washing fruit Including pumpkins, melons, marrows and zucchini (courgettes)	1972
D03-H01T3A	.. Low fat	2005	D03-J06	Cutting or crushing fruit Including pumpkins, melons, marrows and zucchini (courgettes)	1972
D03-H01T3B	.. Low carbohydrate	2005	D03-J07	Peeling vegetables Including peas, beans, mushrooms and cauliflowers	1972
D03-H01T4	. High calorie foodstuff For example energy bars	2005	D03-J08	Washing vegetables Including peas, beans, mushrooms and cauliflowers	1972
D03-H01T5	. Special dietary requirement foods e.g. diabetic, gluten free. <i>Previous code(s): D03-H01T</i>	2006	D03-J09	Cutting or crushing vegetables Including "topping and tailing", coring and pulping; e.g. of peas, beans, mushrooms and cauliflowers	1972
D03-H01U	. Fried foodstuff	2005	D03-J10	Preparation of animal feeds	1972
D03-H01V	. Jam/marmalade/other conserve <i>Previous code(s): D03-H01J</i>	2007	D03-J11	Popcorn making	2005
D03-H02	Preserving foodstuffs		D03-J	General and others Includes "topping and tailing", coring and pulping	
D03-H02	Preserving e.g. pasteurising, sterilising, freezing, refrigeration, drying, freeze drying. For specific food, search under appropriate D01-A: to D03-H01: code only. For dehydrated food see also D03-H01L				
D03-H02A	. By freezing	1986			
D03-H02B	. By heat sterilisation	1986			
D03-H02C	. By irradiation	1986			
D03-H02D	. By adding salt or acid (pickling) or sugar	1986			

D03-K	SHAPING OR WORKING OF FOODSTUFFS	
D03-K01	Cooking and baking general, ovens	1972
D03-K02	Grading devices for food	1972
D03-K03	Testing and monitoring liquid food	1972
D03-K04	Testing and monitoring solid food	1972
D03-K05	Cutting devices for food	1972
D03-K06	Moulding of food e.g. extrusion	1972
D03-K07	Mixing of ingredients for food	1972
D03-K08	Transporting and packing devices for food	1972
D03-K09	Devices for concentrating or drying food	1972
D03-K10	Dispenser for foodstuff	2005
D03-K11	Labelling system for foodstuff	2005
D03-K12	Defrosting foodstuff	2005
D03-K	General and others	

D03-L	RICE AND PRODUCTS	1994
D03-L	Rice and products Excluding D01-B02C  <i>Previous code(s): D03-H01</i>	1994
D03-M	EGG AND PRODUCTS	1994
D03-M	Egg and products  <i>Previous code(s): D03-H01</i>	1994
D03-N	VEGETABLE PRODUCTS Not to be used in conjunction with D03-A and/or D03-J	2005
D03-P	FRUIT PRODUCTS Not to be used in conjunction with D03-A and/or D03-J	2005
D03-Q	NUT PRODUCTS Not to be used in conjunction with D03-A and/or D03-J	2005
D03-R	CEREAL PRODUCTS Not to be used in conjunction with D03-A and/or D03-J	2005
D03-S	BABY FOOD ONLY Used in conjunction with other codes in section D	2007

## D04 TREATING WATER, WASTE WATER AND SEWAGE

D04-A	<b>TREATMENT OF THE WATER</b> see also D04-B: for impurities removed	
D04-A	<b>Water treatment process general</b>	
D04-A01	<b>Purification general</b>	
D04-A01A	. By distillation	1972
D04-A01B	. By precipitation, sedimentation, flocculation See D04-B09	1972
D04-A01C	. By freezing, crystallisation	1972
D04-A01D	. Membranes for reverse osmosis	1972
D04-A01E	. Apparatus for reverse osmosis, membrane filtration and ultra-filtration	1972
D04-A01F	. By other filtration processes, adsorption, active C	1972
D04-A01F1	.. Other filtration process	2005
D04-A01F2	.. Active C treatment	2005
D04-A01F3	.. Other adsorption processes	2005
D04-A01G	. By ion exchange	1972
D04-A01H	. Measuring purity of water	1972
D04-A01J	. Biological process e.g. sewage treatment. Not used when D04-B10: codes are applied	1986
D04-A01K	. By oxidation/aeration <i>Previous code(s): D04-B08</i>	1986
D04-A01K1	.. Oxidation with ozone	2005
D04-A01K2	.. Oxidation / aeration with other	2005
D04-A01L	. By flotation <i>Previous code(s): D04-B09</i>	1986
D04-A01M	. By electrochemical process	1986
D04-A01N	. By extraction	1986
D04-A01P	. By other method Including other chemical, decanting	1986
D04-A01P1	.. Chemical method	2005
D04-A01P2	.. Physical method	2005
D04-A01Q	. Magnetic water treatment <i>Previous code(s): D04-A01P</i>	1994
D04-A02	<b>Sterilisation of water</b>	1972
D04-A03	<b>Scale prevention, deoxygenation and anti-corrosion general</b>	1972
D04-A03A	. Scale prevention	1986
D04-A03B	. Deoxygenation and degassification of water	1986
D04-A03C	. Anti-corrosion	1986
D04-A04	<b>Physiological amelioration of potable water by specific additives</b>	
D04-A05	<b>Containment of waste to prevent contamination of water</b> e.g. (i) preventing herbicides from reaching water, (ii) enclosing waste in another material	1994
D04-A06	<b>Apparatus for recycling waste water</b>	2007

D04-B	<b>IMPURITY REMOVAL FROM WATER</b> Prior to 198601 these codes are applied only to the removal of impurities from waste water, after 198601 they are applied to domestic or industrial waste water or natural water. Also search D04-A: for method of removal.		D04-B07C	. <b>Removal of inorganic nitrogen compounds</b> Excluding urea and cyanides but including nitrates, ammonia and inorganic carbamates	1986
D04-B	<b>Impurity removal from water general</b>		D04-B07D	. <b>Removal of inorganic sulphur compounds</b>	1986
D04-B01	Of sewage	1971-1976	D04-B07E	. <b>Removal of inorganic fluorine compound</b>	1986
D04-B02	Of aqueous industrial effluent, oil pollution	1972-1976	D04-B07F	. <b>Desalination of brine or sea water.</b>	1986
D04-B03	Removal of mineral oil, hydrocarbons, coal slurry	1977	D04-B08	<b>Oxidation/aeration of waste water</b> From 198601 search D04-A01K	1977-1985
D04-B04	<b>Removal of natural products</b> Including protein, starch, animal and vegetable fats and oils, natural animal, plant and fish material from power station inflow	1977	D04-B09	<b>Sedimentation, addition of flocculants to waste water, flotation</b> From 198601 search D04-A01B or D04-A01L	1977-1985
D04-B05	<b>Removal of metals</b> Including metal compounds, excluding alkali(ne earth) metal compounds.	1977	D04-B10	<b>Sewage sludge from water</b> Separation, solidification of sludge, treatment of sludge general	1977
D04-B05A	. <b>Removal of heavy metals</b> Used for where the patent vaguely mentions removal of Heavy metals or removal of 2nd, 3rd row transition metals, Lanthanides or Actinides	2005	D04-B10A	. <b>Dewatering sludge</b>	1986
D04-B05B	. <b>Removal of other metals</b>	2005	D04-B10B	. <b>Pyrolysis of sludge</b> Excluding D04-B10A	1986
D04-B06	<b>Removal of specific organic materials general</b>	1977	D04-B11	<b>General sewage treatment</b> From 198601 search D04-A:	1977-1985
D04-B06A	. <b>Removal of phenolic compounds.</b>	1986	D04-C	<b>GAS IMPREGNATED WATER E.G. WITH CARBON DIOXIDE</b>	
D04-B06B	. <b>Removal of organic dyes, optical brighteners</b>	1986	D04-C	<b>General</b>	
D04-B06C	. <b>Removal of surfactants</b>				
D04-B06D	. <b>Removal of polymers and polymer monomers</b>	1986			
D04-B06E	. <b>Removing halohydrocarbons from water</b> <i>Previous code(s): D04-B06</i>	1994			
D04-B07	<b>Removal of specific inorganic materials and radioactive materials general</b>	1977			
D04-B07A	. <b>Removal of inorganic cyanides or (thio)cyanates</b>	1986			
D04-B07B	. <b>Removal of inorganic phosphorus compounds</b>	1986			



**D05 FERMENTATION INDUSTRY****D05-A INDUSTRIAL FERMENTATION PROCESSES GENERAL****D05-A General****D05-A01 Enzyme bound to carrier general**

1977

**D05-A01A . Carrier general**

1986

**D05-A01A1 .. Polysaccharide**

1986

**D05-A01A2 .. Polymer**  
Excluding natural polymers

1986

**D05-A01A3 .. Non-polymeric organic compound**  
e.g. hapten

1986

**D05-A01A4 .. Natural material other than above**  
e.g. antibody

1986

**D05-A01A5 .. Inorganic material**  
e.g. glass, metal, silica, clay, mineral

1986

**D05-A01B . Fixed enzyme general**

1986

**D05-A01B1 .. Oxidoreductase**

1986

**D05-A01B2 .. Transferase**

1986

**D05-A01B3 .. Hydrolase**

1986

**D05-A01B4 .. Lyase**

1986

**D05-A01B5 .. Isomerase**

1986

**D05-A01B6 .. Ligase (synthetase)**

1986

**D05-A01C . Process general**

1986

**D05-A01C1 .. Apparatus using fixed enzyme**

1986

**D05-A01C2 .. General methods of binding enzymes to carriers**  
D05-A01C: codes are only applied if the scope of both the enzyme and the carrier are broad. Only the inventive feature is searchable. For example if a hydrolase is bound to any carrier, then only the code D05-A01B3 is searchable not D05-A01A.

1986

**D05-A02 Other enzyme process (non-fixed) general**

1977

**D05-A02A . Oxidoreductase**

1986

**D05-A02B . Transferase**

1986

**D05-A02C . Hydrolase**

1986

**D05-A02D . Lyase**

1986

**D05-A02E . Isomerase**

1986

**D05-A02F . Ligase (synthetase)**

1986

**D05-A03 Fermentation apparatus general**  
Excluding organic waste fermentation

1977

**D05-A03A . Carriers for microorganisms.**  
Microorganisms bound to carriers e.g. pellets, textiles, polymers

1986

**D05-A03B . Automated fermentation vessels**  
Excluding sewage treatment

1986

**D05-A03C . Mixing devices for fermentation vessels, aeration of the medium**  
Excluding sewage treatment. The recovery of microorganisms from the medium and preparation of the medium (e.g. comminuting waste for fermentation) is searched under D05-A04. Recovery of products is searched under D05-C.

1986

**D05-A04 Other fermentation processes general**

1977

**D05-A04A . Organic waste, town waste or sludge fermentation**

1986

**D05-A04B . Culture media and their preparation for industrial fermentation, comminuting waste for fermentation**

Aeration and mixing devices for media during fermentation - see D05-A03C

1986

**D05-A04C . Cultivation of mushrooms, shitake, Basidiomycetes etc.**

1986

**D05-A04D . Fermented foods**

2007

*Previous code(s): D03-H01*

D05-B	<b>BREWING, ETHANOLIC FERMENTATION</b>	
D05-B01	<b>Malting grains and mash processing</b>	1986, 2010
D05-B01A	. <b>Malting grains</b> Malting involves soaking grains, allowing them to germinate and then drying. Includes barley steeping device for malt	2010
D05-B01B	. <b>Mash processing</b> Mash processing or preparation. Also includes devices used for mash preparation.	2010
D05-B02	<b>Brewing beer, fermentation to give beer-type drinks, low-calorie beer</b> For low calorie beer also search D03-H01T	1986
D05-B03	<b>Fermentation to give ethanol as the main product</b>	1986
D05-B04	<b>Fermentation to give yeast as the main desired product</b> e.g. for brewing, baking or as animal feed	1986
D05-B	<b>General and others</b>	
D05-C	<b>CHEMICALS BY FERMENTATION (BIOSYNTHESIS)</b> This section is not additionally searched under D05-A03: or D05-A04: Polypeptides and proteins (including enzymes) which are produced by genetically engineered microorganisms are searched under D05-C and under D05-H17. Polypeptides and proteins (including enzymes) which are produced by engineered cell lines (i.e. not by microorganisms and so not defined as fermentation) are only searched under D05-H17.	
D05-C01	<b>Amino acids</b>	1971
D05-C02	<b>Antibiotics</b>	1971
D05-C03	<b>Enzymes</b>	1971
D05-C03A	. <b>Coenzymes</b>	1986
D05-C03B	. <b>Oxidoreductases</b>	1986
D05-C03C	. <b>Hydrolases</b>	1986
D05-C03D	. <b>Transferases</b>	1986
D05-C03E	. <b>Lyases</b>	1986
D05-C03F	. <b>Isomerases</b>	1986

D05-C03G	. <b>Ligases (synthetases)</b>	1986
D05-C04	<b>Steroids</b>	1971
D05-C05	<b>Nucleotides</b>	1972
D05-C06	<b>Nucleosides</b>	1972
D05-C07	<b>Nucleic acids</b>	1972
D05-C08	<b>Sugars</b> Including polysaccharides	1972
D05-C09	<b>Aliphatic acids</b> Except any of the above	1972
D05-C10	<b>Vitamins</b>	1972
D05-C11	<b>Polypeptides</b>	1986
D05-C12	<b>Specific proteins, excluding enzymes</b>	1986
D05-C13	<b>Biomass and non-specific proteins, yeast proteins (not yeast itself)</b>	1986
D05-C14	<b>Methane</b>	1986
D05-C15	<b>Unsubstituted aliphatic alcohols excluding ethanol</b>	1986
D05-C16	<b>Di- or tripeptides</b> e.g. glutathione	2009
D05-C17	<b>Sugar alcohols</b>	2010
D05-C18	<b>Pigments</b>	2010
D05-C	<b>Others; general.</b> Excluding ethanol	
D05-D	<b>DISTILLATION AND RECTIFICATION OF FERMENTED SOLUTIONS, BY-PRODUCT RECOVERY, DENATURING OF ALCOHOL</b>	
D05-D	<b>General</b>	
D05-E	<b>WINE, ALCOHOLIC BEVERAGES</b>	
D05-E	<b>General</b>	
D05-F	<b>PASTEURISATION, STERILISATION, PRESERVATION, CLARIFICATION, AGEING ALCOHOLIC BEVERAGES</b>	
D05-F	<b>General</b>	
D05-G	<b>VINEGAR</b>	
D05-G	<b>General</b>	

D05-H	<b>MICROBIOLOGY, LABORATORY PROCEDURES</b>		D05-H10	<b>Fixing biological substances or cells to a carrier and the carriers themselves</b>	
D05-H01	<b>Culture media</b>	1972		Excludes microorganisms and enzymes. Microorganisms and enzymes bound to carriers are searched under D05-A codes.	1986
D05-H02	<b>Culture apparatus</b>	1972	D05-H11	<b>Antibodies</b>	
D05-H03	<b>Formation of microbial mutants</b>	1972		Restricted to Monoclonal Antibodies only prior to 1994.	1986
D05-H03A	. <b>By random method-chemically or by irradiation</b>	1986	D05-H11A	. <b>Monoclonal antibodies</b>	1994
D05-H03B	. <b>By recombinant DNA technology</b> From 1994, microbial mutants (and non-microbial mutants) obtained by recombinant DNA techniques are searched under D05-H14. New methods of forming microbial and non-microbial mutants are searched under D05-H18. 1986-1993			<i>Previous code(s): D05-H11</i>	
D05-H04	<b>Newly discovered, testing of, isolation of, identification of and detection of Bacteria</b> May be used in combination with D05-H18B code. Recombinant bacteria are searched under D05-H14A. 1972		D05-H11A1	.. <b>Monoclonal antibodies prepared by hybridoma techniques</b>	1994
D05-H05	<b>Newly discovered, testing of, isolation of, identification of and detection of Fungi</b> May be used in combination with D05-H18B code. Recombinant Fungi are searched under D05-H14A2. 1972			<i>Previous code(s): D05-H11</i>	
D05-H06	<b>Newly discovered, testing of, isolation of, identification of and detection of Viruses and Other</b>	1972	D05-H11A2	.. <b>Monoclonal antibodies prepared by recombinant DNA techniques</b> Includes CDR-grafted, humanised and chimeric antibodies; antibodies produced in transgenic animals and antibodies or fragments thereof fused to physiologically active polypeptides such as enzymes or toxins. The production of engineered antibodies and fusion proteins comprising an antibody or antibody fragment is searched under D05-H17A1, D05-H17B1 or D05-H17C1 codes. 1994	
D05-H06A	. <b>Newly discovered, testing of, isolation of, identification of and detection of Viruses</b> May be used in combination with D05-H18B code. Recombinant Viruses are searched under D05-H12F. 2002		D05-H11B	. <b>Polyclonal Antibodies</b>	1994
D05-H06B	. <b>Newly discovered, testing of, isolation of, identification of and detection of Prions</b>	2002	D05-H11C	. <b>Abzyme</b> A catalytic antibody. 2005	
D05-H07	<b>Production of vaccines, antigens</b>	1972	D05-H12	<b>DNA, cDNA, transfer vectors, RNA</b>	1986
D05-H08	<b>Cell or tissue culture</b> Culture media and culture apparatus are searched under D05-H01 and D05-H02, respectively. 1972		D05-H12A	. <b>Wild-type coding sequences</b> Includes new genes and gene fragments. Wild-type (or "native") coding sequences code for the normal, functional version of a protein. Wild-type coding sequences that are fused to other sequences are searched under D05-H12A if they encode the major expression product, after any post-translational processing, e.g. after cleavage from a signal peptide. 1994	
D05-H09	<b>Testing and detection other than D05-H04, D05-H05 and D05-H06</b> May be used in combination with D05-H18B. 1986			<i>Previous code(s): D05-H12</i>	

D05-H12B	. <b>Mutant sequences</b> Sequences which encode variant proteins (muteins) and truncated proteins, whether functional or not. Mutant coding sequences which are fused to other sequences are searched under D05-H12B if they encode the major expression product after any post-translational processing.  <i>Previous code(s): D05-H12</i>	1994	D05-H12D6	.. <b>Other specified non-coding sequences</b>  <i>Previous code(s): D05-H12</i>	1994
D05-H12B1	.. <b>Naturally occurring mutant sequences</b> e.g. mutant allele, polymorphism.  <i>Previous code(s): D05-H12</i>	1994	D05-H12D7	.. <b>DNAzyme</b> Catalytic DNA sequence.	2005
D05-H12B2	.. <b>Engineered mutant sequences</b>  <i>Previous code(s): D05-H12</i>	1994	D05-H12D8	.. <b>Short interfering RNA / micro RNA general</b>	2005
D05-H12C	. <b>Fusion genes, transgenes</b> Includes all fusion genes, transgenes, chimeric or hybrid genes coding for proteins in which all the fused regions are present in the functional translation product. Excludes constructs in which a coding sequence (wild-type or mutant) is fused to e.g. a secretion signal or protease cleavage site such that the major protein product following any post-translational processing is not the intact fusion protein. In these cases, the code D05-H12A or D05-H12B is applied, as appropriate.  <i>Previous code(s): D05-H12</i>	1994	D05-H12D8A	... <b>siRNA</b> Double-stranded short RNA molecules which bind RNAs and target them for degradation and/or destruction	2005
D05-H12D	. <b>DNA, cDNA, RNA non-coding sequences</b>  <i>Previous code(s): D05-H12</i>	1994	D05-H12D8B	... <b>miRNA</b> Single-stranded RNA molecules which that are processed from larger stem-looped precursors by Dicer.	2005
D05-H12D1	.. <b>Primers, probes</b>  <i>Previous code(s): D05-H12</i>	1994	D05-H12D8C	... <b>Small hairpin RNA</b>	2006
D05-H12D2	.. <b>Antisense sequences/constructs</b>  <i>Previous code(s): D05-H12</i>	1994	D05-H12D9	.. <b>PNA</b> Peptide nucleic acids.	2005
D05-H12D3	.. <b>Triple-helix forming oligonucleotides</b>  <i>Previous code(s): D05-H12</i>	1994	D05-H12D10	.. <b>Aptamer</b>	2006
D05-H12D4	.. <b>Ribozyme</b>  <i>Previous code(s): D05-H12</i>	1994	D05-H12E	. <b>Vectors</b> Includes viral vectors (e.g. Baculovirus vectors, phagemids), plasmid vectors, cosmids and transposons.  <i>Previous code(s): D05-H12</i>	1994
D05-H12D5	.. <b>Transcription/translation regulation sequences</b> Includes new or modified enhancers, promoters and upstream activating sequences.  <i>Previous code(s): D05-H12</i>	1994	D05-H12F	. <b>Recombinant viruses (excluding viral vectors)</b> Includes recombinant viruses other than those used as vectors, e.g. viruses which have been attenuated for use in vaccines. Naturally occurring viral strains are searched under D05-H06.  <i>Previous code(s): D05-H03B</i>	1994
			D05-H12G	. <b>Marker/reporter gene</b>	2009
			D05-H13	<b>Recovery of biological substances and materials, ultra-filtration</b>	1986
			D05-H14	<b>Recombinant cells</b> Host cells (prokaryotic and eukaryotic) transformed by a recombinant DNA vector.	1994
			D05-H14A	. <b>Recombinant Microbial cells (unspecified)</b>  <i>Previous code(s): D05-H03B</i>	1994
			D05-H14A1	.. <b>Recombinant Bacteria</b>  <i>Previous code(s): D05-H03B</i>	1994

D05-H14A2	.. Recombinant Fungi (including yeast)	1994	D05-H17	<b>Recombinant protein/polypeptide production</b>	1994
	<i>Previous code(s): D05-H03B</i>			Production of polypeptides and proteins by recombinant DNA techniques is searched under D05-H17. Includes production of heterologous proteins in a genetically engineered host or transgenic organism, enhanced production of host proteins and production of genetically engineered antibodies. If the host is microbial, e.g. a bacterium or fungus, D05-H17 codes are applied in addition to the appropriate D05-C codes.	
D05-H14A3	.. Other recombinant microorganisms (e.g. Protozoa)	1994			
	<i>Previous code(s): D05-H03B</i>				
D05-H14B	. Recombinant Cell lines (unspecified)	1994			
D05-H14B1	.. Recombinant Insect cells	1994			
D05-H14B2	.. Recombinant Mammalian cells	1994	D05-H17A	. Wild type protein/polypeptide production	1994
	Excludes antibody-producing cells and hybridomas. Such cells are searched under D05-H15.			Includes production of wild-type proteins with more than one subunit except where these are expressed as a fusion protein.	
D05-H14B3	.. Recombinant plant cells	1994			
D05-H14B4	.. Other specified recombinant cell lines	1994	D05-H17A1	.. Production of engineered wild-type antibodies	1994
D05-H15	Antibody-producing cells, hybridomas	1994	D05-H17A2	.. Production of wild-type cytokine, lymphokine, growth factor, hormone	1994
D05-H15A	. Antibody producing cells/hybridoma	2005	D05-H17A3	.. Production of wild-type enzyme	1994
	A cell line for producing monoclonal antibodies; produced by fusing antibody-secreting B cells with lymphocyte tumor cells.		D05-H17A4	.. Production of wild-type receptor	1994
D05-H15B	. Other chimeric/fused cells	2005	D05-H17A5	.. Production of wild-type antigen	1994
	Cell lines comprising or formed from components derived from 2 separate cell types, and excluding antibody producing hybridomas.		D05-H17A6	.. Production of other specified wild-type protein	1994
D05-H16	Transgenic organisms	1994	D05-H17A7	.. Production of wild-type zinc finger protein	2005
D05-H16A	. Transgenic animal	1994		A protein which contains (or is capable of binding) zinc ions through cysteine residue (or a combination of cysteine and histidine residues). Zinc fingers function in helping some proteins that bind to DNA recognize that DNA.	
D05-H16B	. Transgenic plant	1994	D05-H17B	. Mutant protein/polypeptide production	1994
	Includes plants cultured from cells which are manipulated by genetic engineering techniques.			Includes production of mutant proteins comprising more than one subunit and production of proteins in which different subunits are derived from different sources, except where these are expressed as a fusion protein.	
D05-H16C	. Transomatic animal	2005			
	An animal which has gene(s) from another cell or organism stably incorporated into some but not all cells.		D05-H17B1	.. Production of engineered mutant antibodies	1994
D50-H16D	. Transomatic plant	2005	D05-H17B2	.. Production of mutant cytokine, lymphokine, growth factor, peptide hormone	1994

170 | **D: FOOD, FERMENTATION,  
DISINFECTANTS, DETERGENTS**

D05-H17B3	.. Production of mutant enzyme	1994
D05-H17B4	.. Production of mutant receptor	1994
D05-H17B5	.. Production of mutant antigen	1994
D05-H17B6	.. Production of other specified mutant protein	1994
D05-H17B7	.. Production of mutant zinc finger protein	2005
D05-H17C	. <b>Fusion protein/polypeptide production</b> Includes fusion proteins where the fused translation product remains intact as the functional (or multifunctional) protein, e.g. a cell-binding region fused to a catalytic region, a membrane-anchoring sequence fused to an antigenic region, etc. Excludes "fusion proteins" which undergo post-translational processing to produce separate protein entities. In these cases, the major cleavage product is coded in D05-H17A or D05-H17B, as appropriate.	1994
D05-H17C1	.. Production of fusion protein comprising an antibody or antibody fragments	1994
D05-H18	<b>Genetic engineering techniques, new methods</b> Includes transfection techniques	1994

D05-H18A	. DNA sequencing method	1994
D05-H18B	. <b>DNA amplification method</b> Includes modifications of the Polymerase Chain Reaction, the Ligase Chain Reaction, etc. Detection methods coded in D05-H04, D05-H05, D05-H06 or D05-H09 which rely on DNA amplification, e.g. for detection of specific microbial strains or specific polymorphisms, are additionally searched under D05-H18B.	1994
D05-H19	<b>Biological materials for use in genetic engineering (general)</b>	1994
D05-H19A	. <b>Newly discovered restriction endonucleases and methylases</b>	1994
D05-H19B	. <b>New or modified DNA polymerases, RNA polymerases</b> Includes reverse transcriptase.	1994
D05-H20	<b>Electroporation devices</b>	2007
D05-H	<b>General and others</b>	
D05-J	<b>BREWING DEVICES</b> Including pitching, machines, and cellular tools	
D05-J	<b>General</b>	

**D06 SUGAR AND STARCH INDUSTRY**

D06-A	<b>PROCESSING RAW MATERIALS</b> Including cutting mills, shredding knives, pulp presses
D06-B	<b>Treatment of sugar juices</b>
D06-C	<b>Processing raw sugar</b> Including centrifuging, sugar crystals, testing sugar solution
D06-D	<b>Evaporation apparatus; boiling pans; drying sugar</b>
D06-E	<b>Cutting, sorting and packing of sugar, sugar lumps</b>
D06-F	<b>Extraction of sugar from molasses</b>
D06-G	<b>Other sugars</b>
D06-H	<b>Polysaccharides general</b>
D06-H01	. Starch and derivatives, dextran 1986
D06-H02	. Cyclodextrin 1986

**D07 SKINS, HIDES, PELTS, LEATHER, TOBACCO**

D07-A	<b>MECHANICAL TREATMENT OF SKINS, HIDES, LEATHER</b> Including cutting, stretching
D07-B	<b>Chemical treatment of skins, hides, leather</b> Including dyeing, chemical dehairing and defatting
D07-C	<b>Tobacco preparation and processing</b>
D07-D	<b>Chemical features or treatment of tobacco</b> Including filter tips, removal of nicotine, tobacco extracts

**D08 COSMETICS, DENTAL, TOILET PREPARATIONS**

D08-A	<b>DENTAL PREPARATIONS (GENERAL AND OTHERS)</b>
D08-A01	<b>Fillings</b> 1986
D08-A02	<b>Adhesives and cements</b> 1986
D08-A03	<b>Artificial teeth, dentures, crowns, fixing devices for dentures, moulding devices</b> Excluding cements and adhesives 1986
D08-A04	<b>Dental instruments, saliva pumps, syringes</b> 1986
D08-A05	<b>Anticaries compositions</b> 1986
D08-A06	<b>Dental plaster and dental impression devices</b> 1986
D08-B	<b>COSMETIC PREPARATIONS (GENERAL AND OTHERS)</b>
D08-B01	<b>Make-up (and removing); luminescent pastes</b>
D08-B01A	. <b>Eye make-up</b> e.g. eye shadow, eyeliner, mascara etc 2005
D08-B01B	. <b>Lip products</b> e.g. lipsticks, lip gloss, lip liners etc 2005
D08-B01C	. <b>Make-up</b> e.g. foundations and blushers 2005
D08-B01D	. <b>Others</b> 2005
D08-B01D1	. <b>Skin whitening agent</b> 2007 <i>Previous code(s): D08-B01D</i>
D08-B02	<b>Care of nails; nail polishes</b>
D08-B03	<b>Care of hair (or promoting growth)</b>
D08-B03A	. <b>Products for promoting growth</b> 2005
D08-B03B	. <b>Hair conditioner</b> 2 in 1 shampoo and conditioners code here and also in D08-B04 2005
D08-B03C	. <b>Others</b> 2005
D08-B04	<b>Rinsing the hair, shampoo</b>
D08-B05	<b>Waving, straightening, fixing hair</b>
D08-B06	<b>Dyeing, bleaching hair</b>
D08-B07	<b>Depilatories, soapless shaving preparations</b>

172 | D: FOOD, FERMENTATION,  
DISINFECTANTS, DETERGENTS

D08-B08	Cleaning the teeth or mouth general		D08-B14A	. Toothpaste	
D08-B08A	. Toothpaste	2002		Includes tooth powder	2005
D08-B08B	. Mouthwash	2002	D08-B14B	. Mouthwash	2005
D08-B08C	. Gels	2005	D08-B14C	. Gels	2005
D08-B08D	. Strips	2005	D08-B14D	. Strips	2005
D08-B08E	. Floss		D08-B15	Cellulite treatment	2005
	Includes dental tape	2005	D08-B	General and others	
D08-B09	Care of the skin, anti-perspirants, astringents general	1971	D08-C	<b>ANIMAL USE</b>	
D08-B09A	. Skin care general	1986		Used for novelties where a code from D08- A and/or D08-B applies but solely for use with animals	2005
D08-B09A1	.. Skin care	2002			
D08-B09A1A	... Liquid skin care formulation	2007			
	<i>Previous code(s): D09-B09A1</i>				
D08-B09A1B	... Solid skin care formulation	2007			
	<i>Previous code(s): D09-B09A1</i>				
D08-B09A2	.. Personal face and body wash	2002			
D08-B09A2A	... Liquid personal face and body wash	2007			
	<i>Previous code(s): D09-B09A2</i>				
D08-B09A2B	... Solid personal face and body wash	2007			
	<i>Previous code(s): D09-B09A2</i>				
D08-B09A3	.. Anti-ageing preparations	2002			
D08-B09B	. Antiperspirant deodorants				
	Includes anti-perspirant deodorants	1986			
D08-B09B1	.. Deodorants only	2005			
D08-B09B2	.. Antiperspirant only	2005			
D08-B10	Carriers or bases for cosmetics	1986			
D08-B11	Antioxidants and stabilisers	1986			
D08-B12	Perfume for cosmetics				
	D10-A05 may also be searched	1986			
D08-B13	Surfactants for cosmetics, excluding hair washing compositions, soap and mouth and dental preparations	1986			
D08-B14	Whitening teeth only				
	For whitening chewing gum use this code and D03-E09	2005			



## D09 STERILISING AND DISINFECTING, BANDAGES AND DRESSINGS

D09-A	<b>DISINFECTION OR STERILISATION OTHER THAN OF FOOD OR AIR</b> Including preservation of bodies and their parts e.g. vital organs, cornea, semen, embryos	
D09-A01	<b>Chemical methods</b>	1971
D09-A01A	. Oxidising agents (including peroxides) halogens, halogen-generators (chlorisocyanurates) heavy metal compounds; other inorganics	1977
D09-A01B	. Phenolic compounds (including precursors such as esters); quaternary ammonium compounds (optionally cyclic); amine oxides, tropolones; sulphonium.	1977
D09-A01C	. Antibiotics; other heterocyclics Including ethylene oxide	1977
D09-A02	<b>Physical method</b>	1971
D09-A03	<b>Preservation of biological specimens and tissue</b>	2005
D09-A	<b>General and others.</b>	

D09-B	<b>DISINFECTION AND STERILISATION OF AIR</b> Including purifying, deodorising and killing insects	
D09-B	<b>General</b>	
D09-B01	<b>Deodorising/sterilising devices general</b> Apply codes from this section only if the device is claimed. May be used in conjunction with other D09-B codes if necessary.	2005
D09-B01A	. <b>Using heating elements</b> e.g. vaporisers, evaporators and plug-ins	2005
D09-B01B	. <b>Using sprayers/atomisers</b> e.g. aerosols, pumps and misting devices	2005
D09-B01C	. <b>Passive means</b> Spreading a substance by convection or sachets	2005
D09-B02	<b>Candles used in disinfection / deodorisation of air</b>	2005
D09-B03	<b>Creation of aseptic environment</b> Used for processes and apparatus designed to create a sterile atmosphere within a room, especially an operating theatre or food preparation plant.	2005
D09-B04	<b>Perfuming of air (masking)</b>	2005
D09-B05	<b>Neutralising odour causing substances</b> e.g. cat litter	2005
D09-B06	<b>Killing/controlling insects (in a room)</b>	2005

D09-C	<b>BANDAGES, DRESSINGS</b>	
D09-C01	<b>Prostheses, Implants</b> Excluding dentures, false nails, eyelashes and wigs	1972
D09-C01A	. Lenses	1986
D09-C01B	. Blood vessels	1986
D09-C01C	. Organs, heart, heart valves, pancreas	1986
D09-C01D	. Artificial joints and limbs, artificial bone, tendons	1986
D09-C01E	. Tissue engineering scaffold <i>Previous code(s): D09-C</i>	2007
D09-C01F	. Catheters, Stents, Implants	2010
D09-C02	<b>Catamenial devices with special shape</b> Including production	1972
D09-C02A	. Tampons	2005
D09-C02B	. Other sanitary products	2005
D09-C03	<b>Baby nappy</b> Including production	1972
D09-C04	<b>Others with special shape</b> Including production general	1972
D09-C04A	. Cataplasms, poultices (for applying heat to a body part)	1986
D09-C04B	. Adhesive plasters, bandages, wound dressings	1986
D09-C04C	. Splints (external) For internal see D09-C01	1986
D09-C04D	. Surgical gowns, protective clothing	1986
D09-C04E	. Adult incontinence pads	2005
D09-C05	Water repellent materials for use as above	1972
D09-C06	Water absorbent materials for use as above	1972
D09-C	<b>General and others</b>	

D09-D	<b>SURGICAL SUTURE MATERIALS</b>	
D09-D	<b>General</b>	
D09-E	<b>CHEMICAL PROTECTION OF SKIN</b>	
D09-E	<b>General</b> e.g chemical agents brought into direct contact with the skin of living human or animal bodies to afford protection against external influences (sunlight, X or other active rays, corrosive liquids or solids, bacteria, insect stings, barrier creams)	
D09-E01	<b>Sunscreen</b>	2002
D09-E02	<b>Insect repellents</b>	2002
D09-E03	<b>Barrier creams</b>	2002

**D10 ANIMAL AND VEGETABLE OILS**

D10-A	OILS AND FATS, PERFUMES	
D10-A01	Fats or oils production from raw materials	
D10-A02	Refining fats or oils	
D10-A03	Preserving by use of additives	
D10-A04	Separation of mixtures into constituents e.g. saturated from unsaturated oils	
D10-A05	Essential oils, perfumes general	
D10-A05A	. Essential oils	1986
D10-A05B	. Perfume compositions for rooms e.g. stone impregnated with perfume with sustained release effect	1986
D10-A05C	. Perfumes other than above	1986
D10-A06	Compositions containing oils and fat	1971
D10-A	General and others Except D03-C and D10-B03	
D10-B	FATTY ACIDS, CANDLES	
D10-B01	Fatty acids preparation from fats, oils or waxes; refining	
D10-B02	Chemical modification of fats, oils, fatty acids	
D10-B03	Candles	
D10-B04	Compositions containing fatty acids Except D11-C	1971
D10-B	Unclassified	

**D11 DETERGENTS, SOAP, GLYCEROL**

D11-A	SURFACE ACTIVE NON-SOAP DETERGENTS	
D11-A01	Anionic compounds	
D11-A01A	. Carboxylic acids, salts and substituted derivatives Except soap	1972
D11-A01A1	.. Contains free carboxylic acid group(s)	1986
D11-A01A2	.. Contains carboxylic acid ester group(s), but no free carboxylic acid groups	1986
D11-A01A3	.. Contains carboxylic amide group(s) but no carboxylic acid or ester group	1986
D11-A01B	. Sulphonic acids and esters	1972
D11-A01B1	.. Aryl sulphonic acid Sulphonic acid group linked via the sulphur atom to the aromatic ring	1986
D11-A01B2	.. Aliphatic sulphonic acid Sulphonic acid group linked via the sulphur atom to the aliphatic chain	1986
D11-A01C	. Lignin sulphonates and derivatives	1972
D11-A01D	. Protein hydrolysates, fatty acid condensates thereof	1972
D11-A01E	. Derivatives of acids of P	1972
D11-A01F	. Sulphate esters	1972
D11-A01F1	.. Unsubstituted alkyl sulphates.	1986
D11-A01F2	.. (Poly)ethoxylated sulphates with one or more ethyleneoxy groups	1986
D11-A02	Cationic compounds	
D11-A02A	. Heterocyclic quaternary ammonium with N+ in ring	1986
D11-A02B	. Quaternary ammonium not in heterocyclic ring	1986
D11-A02B1	.. Containing amide group	1986
D11-A02B2	.. Containing ether or OH groups Excluding D11-A02B1	1986

176 | D: FOOD, FERMENTATION,  
DISINFECTANTS, DETERGENTS

D11-A03	Non-ionic compounds		D11-A11	Anionic, cationic and non-ionic mixtures
D11-A03A	. Polyalkylene oxides	1986		From 197701 also search D11-A01: to D11-A04:
D11-A03A1	.. Polyalkylene glycol ethers with higher alcohols and cycloalkanols	1986	D11-A12	Ampholytes and anionic and/or cationic and/or non-ionic detergent mixtures.
D11-A03A2	.. Polyalkylene glycol ethers with phenols	1986		From 197701 also search D11-A01: to D11-A04:
D11-A03A3	.. Polyalkylene glycol ethers with polyols e.g. glycerol, sorbitan	1986	D11-A	Detergents and their mixtures - general
D11-A03A4	.. Polyalkylene glycol esters with higher carboxylic acids	1986		
D11-A03A5	.. Polyalkylene glycol ethers with substituted alkanols e.g. long chain amides of monoethanolamine	1986		
D11-A03B	. Glycosides (as surfactants)	1994		
	<i>Previous code(s): D11-A03</i>			
D11-A04	Ampholytes, electroneutral compounds			
D11-A04A	. Containing quaternary ammonium group(s) and sulphonate group(s)	1986		
D11-A04B	. Containing quaternary ammonium group(s) and carboxy group(s) but no sulphonate group(s)	1986		
D11-A04C	. Amine oxide type compounds	2005		
D11-A05	Anionic and anionic mixtures From 197701 also search D11-A01: to D11-A04:	1972		
D11-A06	Anionic and cationic mixtures From 197701 also search D11-A01: to D11-A04:	1972		
D11-A07	Anionic and non-ionic mixtures From 197701 also search D11-A01: to D11-A04:	1972		
D11-A08	Cationic and cationic mixtures From 197701 also search D11-A01: to D11-A04:	1972		
D11-A09	Cationic and non-ionic mixtures From 197701 also search D11-A01: to D11-A04:	1972		
D11-A10	Non-ionic and non-ionic mixtures From 197701 also search D11-A01: to D11-A04:	1972		

D11-B	<b>NON SURFACE ACTIVE DETERGENT ADDITIVES</b>		D11-B11A	. <b>Inorganic silicates</b> Including clays and zeolites	2005
D11-B01	<b>Bleaching agents; optical brighteners</b>	1971	D11-B11B	. <b>Organic silicon compounds general</b>	2005
D11-B01A	. <b>Organic bleaches</b> e.g. peroxy-carboxylic acids		D11-B11B1	.. <b>Reactive silicon compounds</b> Includes silazanes	2005
D11-B01B	. <b>Inorganic bleaches</b> e.g. hydrogen peroxide, hypochlorite		D11-B11B2	.. <b>Inert silicon compound</b> Includes silicones and siloxanes unless they have pendent reactive groups	2005
D11-B01C	. <b>Optical brighteners, anti-greying agents, blueing agents</b>		D11-B11C	. <b>Inorganic Carbonates</b>	
D11-B01D	. <b>Bleach activators and catalysts</b>	1994	D11-B11D	. <b>Alkalis</b>	2005
	<i>Previous code(s): D11-B01</i>		D11-B12	<b>Stabilisers (various)</b>	1972
D11-B01D1	.. <b>Bleach activators</b> Includes acyloxybenzene sulfonates, acyloxybenzoic acid, N-acyl lactams and tetraacetylenediamine	2005	D11-B13	<b>Mineral acids</b>	1972
D11-B01D2	.. <b>Bleach catalysts</b> Includes various transition metal complexes and free radical generators such as azobisisobutyronitrile	2005	D11-B14	<b>Antimicrobial agents</b>	1972
D11-B01D3	.. <b>Enzymatic bleaches</b> Bleach compositions that use an enzyme as the active ingredient	2005	D11-B15	<b>Fabric softeners and conditioners</b> Do not also search D11-D07	1972
D11-B01E	. <b>Bleach boosters</b> Compounds added to bleach compositions which are not themselves bleaches but which do increase bleaching power of the composition	2005	D11-B15A	. <b>Concentrated form</b>	
D11-B02	<b>Enzyme additives</b>	1972	D11-B15B	. <b>Other liquid fabric softeners and conditioners</b> Do not also search D11-D07	
D11-B03	<b>Builders</b>	1972	D11-B15C	. <b>Other special forms of softeners and conditioners</b>	
D11-B04	<b>Anticaking agents and soil suspending agents</b>	1972	D11-B16	<b>Solubilisers (solvents, hydrotopes)</b>	1977
D11-B05	<b>Antitarnishing agents</b>	1972	D11-B17	<b>Organic non-polymeric sulphur containing compound</b>	
D11-B06	<b>Sequestering agents</b>	1972	D11-B18	<b>Organic non-polymeric phosphorus containing compounds</b>	
D11-B07	<b>Foam promoters</b>	1972	D11-B19	<b>Organic polymers</b> Excluding polysaccharides D11-B10 and polysiloxanes D11-B11	
D11-B08	<b>Foam inhibitors</b>	1972	D11-B20	<b>Inorganic nitrogen containing compound</b>	
D11-B09	<b>Abrasives</b>	1972	D11-B21	<b>Inorganic phosphorus containing compound</b>	
D11-B10	<b>Carbohydrates, starch and cellulose derivatives</b>	1972	D11-B22	<b>Other inorganic additives</b> Excluding D11-B11	
D11-B11	<b>Silicates, carbonates, alkali, silicones, siloxanes</b>	1972	D11-B23	<b>Perfume or odourant for detergents</b>	
			D11-B24	<b>Thickeners</b> Substances added to a detergent composition in order to increase its viscosity. If a specific type of thickener is used also apply the appropriate D11-B structural code (e.g. if cellulose is used as the thickener add D11-B10).	2005
			D11-B	<b>General and others</b>	

D11-C	SOAP DETERGENT COMPOSITIONS	D11-D01J	. Personal care compositions	2005
D11-C01	Use general	D11-D02	Detergent compositions with special shape or colour	1971
D11-C01A	. Soap bars	D11-D02A	. Tablet or other moulded article	2005
D11-C01B	. Soap powders	D11-D02B	. Capsule Includes microcapsules	2005
D11-C01C	. Liquid soaps	D11-D02C	. Sprays	2005
D11-C02	Soap compositions without special shape and without non-soap detergents	D11-D02D	. Other	2005
D11-C03	Soap with non-soap detergents	D11-D03	Powders, flakes and granules production	1972
D11-C	Soap detergent compositions	D11-D04	Pastes, gels and scouring composition production	1972
D11-D	SPECIAL METHODS OR DETERGENT MATERIALS	D11-D05	Sulphonation processes for preparing detergents	1971
D11-D01	Detergent compositions with special uses	D11-D06	Biodegradable detergents	1972
	1971	D11-D07	Liquid detergent compositions	1977
D11-D01A	. Dishwashing, bottle and utensil washing Including china, glass and plastic.	D11-D07A	. Heavy duty laundry detergents For use in automatic washing machines	2005
	1986	D11-D07B	. Light duty liquid laundry detergents For use in hand washing of clothes	2005
D11-D01B	. Heavy duty hard surface cleaner e.g. paintwork, plastic surfaces, baths (excluding plastic baths), walls, tiles, stone, machinery, surgical instruments, cars, aircraft, boilers, ships, and metal articles.	D11-D07C	. Liquid Laundry detergents with special use	2005
	1986	D11-D07C1	.. Colour care	2005
D11-D01B1	.. Oven cleaners	D11-D07C2	.. Combined detergent / fabric softener	2005
	2005	D11-D07C3	.. Liquid laundry detergents with bleach (stain removers)	2005
D11-D01B2	.. Flux removers	D11-D07D	. Liquid dishwashing detergents	2005
	2005	D11-D07E	. Automatic dishwashing rinse aids	2005
D11-D01B3	.. Other abrasive type household surface cleaners	D11-D07F	. Liquid soap type (hand washing compositions)	2005
	2005	D11-D07G	. Others	2005
D11-D01B4	.. Other bleach based household surface cleaners	D11-D08	Granular laundry detergent compositions Use when the actual composition rather than its means of manufacture are claimed	2005
	2005	D11-D	General and others	
D11-D01B5	.. Other household surface cleaners			
	2005			
D11-D01B6	.. Other industrial hard surface cleaners			
	2005			
D11-D01C	. Glass or window cleaner, (contact) lens cleaners			
	1986			
D11-D01D	. Lavatory cleaner			
	1986			
D11-D01E	. Drain or sink cleaner			
	1986			
D11-D01F	. Detergents effective at low temperatures			
	1986			
D11-D01G	. Detergents effective at high temperatures			
	1986			
D11-D01H	. Laundry compositions			
	2005			

D11-E	SOAP-MAKING, GLYCEROL
D11-E01	Resin soaps from naphthenic acids
D11-E02	Glycerol recovery from saponification liquor For refining see E10-E04+.
D11-F	DETERGENTS WITHOUT TENSIDES
D11-F	General





## E: CHEMDOC

E01	Steroid
E02	Antibiotic
E03	Vitamin
E04	Other Natural Materials
E05	Miscellaneous Organic
E06	Heterocyclic Fused Rings
E07	Heterocyclic, Mononuclear
E08	Aromatic, Polycarbocyclic
E09	Alicyclic, Polycarbocyclic
E10	Aromatic and Cyclo Aliphatic (Mono and Bicyclic only), Aliphatic
E11	Processes, Apparatus
E21	Azo Dyes
E22	Anthraquinone Dyes
E23	Phthalocyanine (Macrocyclic) Dyes
E24	Special Class of Dye
E25	General and Other Dyes
E26	Dye Precursors excluding E21-E, E24-B
E27	Dye Formulations; Morphology
E31	Non-metallic Elements, Metalloids and Compounds
E32	Ammonia, Cyanogen and Compounds
E33	Alkali Metal Compounds
E34	Compounds of Be, Mg, Al, Ca, Sr, Ba, Ra, Th, Rare Earth
E35	Compounds of Other Metals



## E: CHEMDOC

Chemdoc manual codes have been divided into three main sections:-

E01-E11: Organic chemistry (**E1**)

E21-E27: Organic Dyes, Pigments (**E2**)

E31-E35: Inorganic Chemistry (**E3**)

A compound is generally classified in only one of sections (E1), (E2) or (E3), except that:

- organic complexes or salts having an important inorganic component are also coded in section (E3) with the addition of codes E05-S or E05-T, and
- E26 compounds which are not themselves dyes are also coded in section (E1).

### Coding rules

- For **organic salts and complexes** containing more than one essential specific component, each component (e.g. anion and cation of a salt) is coded separately.
- Production** is used to cover new compounds, purification, isolation, storage and chemical processes for producing a known compound and chemical processes where the end-product is a mixture of compounds.
- Use** covers all other inventive features, e.g. compositions, physical processes for producing mixtures, and detection, testing and removal of compounds.
- Inorganic carbon compounds:** The following compounds (including those where S-atoms are replaced by Se or Te) are coded as inorganic:- carbides, graphite compounds, CO, metal carbonyls (see metal), CO<sub>2</sub>, COS, CS<sub>2</sub>, COX<sub>2</sub>, CSX<sub>2</sub> (where X are same or different halogens), metal salts of (thio)carbonic or of (thio) carbamic acid\*, (thio)-cyanogen, cyanamide\*, HCN, HCNO, HCNS, (thio)-cyanogen halides and fulminates. Please note other carbon oxides are coded as organic, as are (thio)ureas and dicyandiamides.  
\*For some (early) references, these compounds have been coded as organic.
- Enol-keto (thiol-thiono) tautomers** and their derivatives (e.g. oximes but not phenols) are always coded as keto (thiono) structures and **amino-imino tautomers** are always coded as amino structures; the rules are the same as for the fragmentation code.

### Note

- Where a code refers to the number of groups present, this refers to the molecule (or ion) as a whole, unless stated otherwise.
- When a specific code is searched, the corresponding generic code(s) (used for general disclosures which would otherwise require several specific codes) must also be searched for complete coverage.

Section E codes commenced at 197001.

### E01-E11 ORGANIC CHEMISTRY (E1)

In section (E1) a single compound is normally assigned just one code in order of priority:-

E01 > E05 > E06 > E07 > E08 > E09 > E10

Within each of the basic groups E05\*, E06 and E07 codes for all essential elements or rings are applied whereas in E08, E09 and E10 only one code is applied.

\*From 199401 the inclusion of fullerenes within section E05 has resulted in an alteration to this rule; codes for all essential elements in a hetero fullerene are **not applied** - they receive code E05-U01 only. e.g. Hf in C60 codes E05-U01 only, **not** E05-N, E05-U01.

### Note

- E02, E03 and E04 are very rarely used because, for known structures, only the chemical structure codes are applied.
- Codes from E11 are applied where there is insufficient (chemical) information and to highlight general and analytical processes.

**E01 STEROID**

Includes all compounds containing a cyclopenta(a) phenanthrene ring system, optionally fused with other rings; **not** coded elsewhere unless additionally as dyes.

<b>E01</b>	<b>GENERAL</b>
<b>E01-P</b>	<b>Steroid - production</b> Used for any specified method of producing steroids.
	2010
<b>E01-U</b>	<b>Steroid - use</b> Used for any specified use of steroids
	2010

**E02 ANTIBIOTIC**

<b>E02</b>	<b>GENERAL</b>
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**E03 VITAMIN**

<b>E03</b>	<b>GENERAL</b>
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**E04 OTHER NATURAL MATERIALS**

<b>E04-A</b>	<b>ALKALOID, PLANT EXTRACT</b>
<b>E04-B</b>	<b>ANIMAL EXTRACT, MICROBIOLOGICAL</b>
<b>E04-C</b>	<b>SUGAR OF UNKNOWN CONSTITUTION; OTHER NATURAL PRODUCT</b>

**E05 MISCELLANEOUS ORGANIC**

This section contains:-

all organic compounds containing elements other than H, C, N, O, S, and halogen

all compounds containing specific isotopes

all radioactive organic and inorganic compounds

all compounds containing halogen as hetero-ring member

all fullerene type cage structures (from 199401)

all organics containing inorganic ligand as essential component; the latter is coded in section (**E3**) and E05-S or E05-T if appropriate.

**Note**

- Organic compounds containing metals are coded in E05 only if the metal either:- (a) forms an important limiting factor of the invention or (b) is attached to organic C-atom or (c) is radioactive or contains a specific isotope. Thus metal salts of organic acids are generally coded only in E05, but for alkali(ne earth) or Al salts see first the code for the acid, then E05-A or E05-B. These latter codes are used only if the metal is the limiting factor.
- From 199401, fullerene type cage structures have been included in this section commencing at code E05-U. Previously, these compounds had been coded in section (**E3**), i.e. E31-N+ for carbon only fullerenes (e.g. Buckminsterfullerene). For fullerenes containing hetero atom(s) of greater priority than carbon, relevant codes corresponding to that atom had been applied.

<b>E05-A</b>	<b>ALKALI METAL</b>
<b>E05-A</b>	<b>Li, Na, K, Rb, Cs – general</b>
<b>E05-A01</b>	<b>Li compounds</b> Organo Lithium compound
	2005
<b>E05-A02</b>	<b>Na, K, Cs, Rb compounds</b> Organo compounds of Na, K, Cs and/ or Rb
	2005
<b>E05-B</b>	<b>ALKALINE EARTH METAL, AL</b>
<b>E05-B</b>	<b>General</b>
<b>E05-B01</b>	<b>Be, Mg, Ca, Sr, Ba</b>
	1975
<b>E05-B02</b>	<b>Compound having Al-C bond</b>
	1975
<b>E05-B03</b>	<b>Other Al compound</b>
	1975

<b>E05-C</b>	<b>BORON</b>	
<b>E05-C</b>	<b>General</b>	
<b>E05-C01</b>	<b>Boron in a ring</b>	1994
	<i>Previous code(s): E05-C</i>	
<b>E05-C02</b>	<b>Other B compound</b>	1994
	<i>Previous code(s): E05-C</i>	
<b>E05-D</b>	<b>PERIODIC GROUP IIIB</b>	
	Excluding B, Al.	
<b>E05-D</b>	<b>Ga, In, Tl - general</b>	
<b>E05-E</b>	<b>SILICON</b>	
	In order of priority: E05-E01 > E05-E02 > E05-E03.	
<b>E05-E</b>	<b>General</b>	
<b>E05-E01</b>	<b>Heterocyclic or aromatic with Si-C bond</b>	
<b>E05-E01A</b>	. Si as part of a ring	2005
<b>E05-E01B</b>	. Heterocyclic compound with Si-C bond	2005
<b>E05-E01C</b>	. Aromatic compound with Si-C bond	2005
<b>E05-E02</b>	<b>(Cyclo)aliphatic with Si-C bond - general</b>	1975
<b>E05-E02A</b>	. 4 Si-C bonds to one Si	1986
<b>E05-E02B</b>	. 3 Si-C bonds to one Si	1986
<b>E05-E02C</b>	. 2 Si-C bonds to one Si	1986
<b>E05-E02D</b>	. 1 Si-C bond to one Si	1986
<b>E05-E03</b>	<b>Other organo-silicon compound</b>	
<b>E05-E03A</b>	. <b>O-Si bonds only</b> Compound containing O-Si bonds only. Used for tetrahydrocarbyloxysilanes and hydrocarbylsilicates	2005
<b>E05-E03B</b>	<b>Other Silicon compounds</b>	2005
<b>E05-F</b>	<b>PERIODIC GROUP IVB</b>	
	Excluding C, Si.	
<b>E05-F</b>	<b>Ge, Sn, Pb - general</b>	
<b>E05-F01</b>	<b>Compound with Sn-C bond</b>	1975
<b>E05-F02</b>	<b>Other compound of Ge, Sn, Pb</b>	
<b>E05-F02A</b>	. <b>Ge compound</b> Organo Germanium compound	2005
<b>E05-F02B</b>	. <b>Other Sn compound</b> Organo Tin compound not containing Sn-C bond(s)	2005
<b>E05-F02C</b>	. <b>Pb compound</b> Organo Lead compound	2005
<b>E05-G</b>	<b>PHOSPHORUS</b>	
	In order of priority: E05-G01 > E05-G02...	
<b>E05-G</b>	<b>General</b>	
<b>E05-G01</b>	<b>P-C bond, heterocyclic compound</b>	
<b>E05-G02</b>	<b>P-C bond, aromatic compound</b>	
<b>E05-G03</b>	<b>P-C bond, aliphatic or alicyclic compound - general</b>	
<b>E05-G03A</b>	. phosphonium; or with P-C multiple bond, P-hal or P-N	1975
<b>E05-G03B</b>	. with 3-valent P (and addition complexes)	1975
<b>E05-G03C</b>	. with 5-valent P and >1 P-C bonds	1975
<b>E05-G03D</b>	. with 5-valent P and 1 P-C bond	1975
<b>E05-G04</b>	<b>P-N bond, heterocyclic compound</b>	
<b>E05-G05</b>	<b>P-N bond, aromatic compound</b>	
<b>E05-G06</b>	<b>P-N bond, aliphatic or alicyclic compound</b>	
<b>E05-G07</b>	<b>P-O or P-S bond, heterocyclic compound</b>	
<b>E05-G08</b>	<b>P-O or P-S bond, aromatic compound</b>	
<b>E05-G09</b>	<b>P-O or P-S bond, aliphatic or alicyclic compound - general</b>	
<b>E05-G09A</b>	. with P-hal, P-S or >1 P	1975
<b>E05-G09B</b>	. with 3-valent P or tautomeric 3-5 valent P	1975
<b>E05-G09C</b>	. mono, di or tri-unsubstituted alkyl orthophosphate (or salt)	1975
<b>E05-G09D</b>	. other 5-valent P compound	1975

E05-H	ARSENIC	
E05-H	General	
E05-J	ANTIMONY, BISMUTH	
E05-J	General	
E05-K	SE, TE, NOBLE GAS, HALOGEN IN RING Excluding At, Rn, E05-Q.	
E05-K	General	
E05-L	1ST TRANSITION SERIES	
E05-L	General	
E05-L01	Ti compound	
E05-L02	Fe, Co, Ni compound - general	
E05-L02A	. Fe compound	1986
E05-L02B	. Co compound	1986
E05-L02C	. Ni compound	1986
E05-L03	Sc, V, Cr, Mn, Cu, Zn compound - general	
E05-L03A	. Sc, V, Cr, Mn compound	1975
E05-L03B	. Cu compound	1975
E05-L03C	. Zn carboxylate	1975
E05-L03D	. other Zn compound	1975
E05-M	2ND TRANSITION SERIES	
E05-M	Y, Zr, Nb, Mo, Tc, Ru, Rh, Pd, Ag, Cd - general	
E05-M01	Zr compound	2005
E05-M02	Ru, Rh, Pd compound-general	2005
E05-M02A	. Ru compound	2005
E05-M02B	. Rh compound	2005
E05-M02C	. Pd compound	2005
E05-M03	Y, Nb, Mo, Tc, Ag, Cd-general	2005
E05-M03A	. Nb, Tc, Cd compound	2005
E05-M03B	. Ag compound	2005
E05-M03C	. Mo compound	2005
E05-M03D	. Yttrium Compound	2005

E05-N	3RD TRANSITION SERIES	
E05-N	Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg - general	
E05-N01	Hafnium compound	2005
E05-N02	Os, Ir, Pt- general	
E05-N02A	. Osmium compound	2005
E05-N02B	. Iridium compound	2005
E05-N02C	. Platinum compound	2005
E05-N03	Ta, W, Re, Au, Hg- general	2005
E05-N03A	. Ta, W, Re	2005
E05-N03B	. Au compound	2005
E05-N03C	. Hg compound	2005
E05-P	LANTHANOIDS (LA-LU)	
E05-P	General	
E05-Q	PO, AT, RN, FR, RA, ACTINOIDS	
E05-Q	General	
E05-R	RADIOACTIVE ELEMENT OTHER THAN E05-Q, SPECIFIC ISOTOPE	
E05-R	General	
E05-S	INORGANIC LIGAND CONTAINING ONLY H, C, N, O, S OR HALOGEN	
E05-S	General	
E05-T	INORGANIC LIGAND (ION OR COMPLEXING AGENT) OTHER THAN E05-S	
E05-T	General	

<b>E05-U</b>	<b>FULLERENE TYPE CAGE STRUCTURES</b> Prior to 199401 fullerene structures had been coded in section (E3). Further notes are included under the section E05 heading. Hetero fullerenes receive code E05-U01 only; the heteroatom(s) present are <b>not</b> described by additional section E05 codes. e.g. Uranium in C82. Code E05-Q should <b>not</b> be added to describe the endohedral uranium atom; only code E05-U01 is required.	1994
<b>E05-U</b>	<b>General</b>	1994
<b>E05-U01</b>	<b>Other than carbon only</b> Where hetero atom(s) may be endohedral (inside cage), or may form part of the cage resulting in a hetero cage structure, or may be bound to the outside of the cage.e.g. C60 H6, C70 F34.	1994
<b>E05-U02</b>	<b>Carbon only</b> e.g. Buckminsterfullerene.	1994
<b>E05-U03</b>	<b>Carbon nanotubes (general)</b> A general code, applied when the nature of nanotube is not specified or if all 3 codes below are relevant.	2010
<b>E05-U03A</b>	. <b>Single walled</b> Single walled carbon nanotube.	2010
<b>E05-U03B</b>	. <b>Double walled</b> Double walled carbon nanotube.	2010
<b>E05-U03C</b>	. <b>Multiple walled (&gt; 2)</b> Multiple walled (> 2) carbon nanotube.	2010
<b>E05-U04</b>	<b>Heteroatom containing nanotubes</b>	2005
<b>E05-U05</b>	<b>Other Carbon nano 3-D structures (general)</b> A general code, applied when the nature of the three-dimensional structures is not specified or if 3 or more of the codes below are relevant.	2010
<b>E05-U05A</b>	. <b>Nanoparticles, nanopowder</b> Carbon nanoparticles or nanopowder.	2010
<b>E05-U05B</b>	. <b>Nanorods, nanowhiskers</b> Carbon nanorods or nanowhiskers.	2010
<b>E05-U05C</b>	. <b>Nanofilm</b> Carbon nanofilm.	2010
<b>E05-U05D</b>	. <b>Other nanoforms (e.g nanobuds, nanohorns)</b> Other nano carbon e.g. nanobuds or nanohorns.	2010
<b>E05-U06</b>	<b>Other heteroatom-containing nano 3-D structures (general)</b> Applied when a heterotom is present in any three-dimensional structure(s) other than those covered above.	2010
<b>E05-U07</b>	<b>Nanostructures of other organic compounds</b> Nanostructures of organic compounds other than compounds coded in E05-U above.	2010
<b>E05-V</b>	<b>METALLOCENES</b>	2005
<b>E05-V</b>	<b>General metallocene</b> Also apply all other E05 codes	2005
<b>E05-V01</b>	<b>Unbridged metallocene with 2-4 pi-arene ligands</b>	2005
<b>E05-V02</b>	<b>Bridged carbocyclic metallocenes</b>	2005
<b>E05-V03</b>	<b>Carbocyclic metallocene with only 1 pi-arene ligand</b>	2005
<b>E05-V04</b>	<b>Metallocene with heteroatom-containing rings</b>	2005
<b>E05-V05</b>	<b>Condensed carbocyclic metallocenes</b>	2005
<b>E05-W</b>	<b>GENERAL ORGANOMETALLIC COMPLEX</b>	2010
<b>E05-W</b>	<b>Organometallic complex (general)</b> Applied to cover an organometallic complex when the metal is not specified; or when 5 or more of the following general metal codes can be applied. E05-A, E05-B, E05-D, E05-F, E05-H, E05-J, E05 L, E05-M, E05-N, E05-P, E05-Q, E05-R.	2010

## E06 HETEROCYCLIC, FUSED RING

The specific compounds listed include all reduced derivatives and tautomers, unless specifically excluded.

### Note

1. For systems containing ring elements other than C, O, S and N see E05.
2. Specific ring systems present in a compound are each coded.
3. If there is an essential fused hetero-ring and (optionally) another variable fused hetero-ring, only the essential ring is coded and not the variable ring nor E06-H.

E06-A	SOLE HETERO(S) OXYGEN	
E06-A	Oxygen-containing fused heterocyclic-general	2005
E06-A01	1-Benzo-(furan or pyran)	
E06-A02	Others with 2 rings - general	
E06-A02A	. Phthalic anhydride (derivative)	1986
E06-A02B	. Phthalide (derivative)	1986
E06-A02C	. Other isobenzofuran; isochromene	1986
E06-A02D	. Other with one O	1986
E06-A02E	. Rings with 2 or more O	1986
E06-A03	With more than 2 rings	
E06-B	SOLE HETERO(S) SULPHUR	
E06-B01	With 2 rings	
E06-B02	With more than 2 rings	
E06-C	SOLE HETEROS O AND S	
E06-C	General	
E06-D	SOLE HETERO(S) NITROGEN	
E06-D01	Indole	
E06-D02	Quinoline	
E06-D03	Isoindole, isoquinoline	
E06-D04	Others with 2 rings and one N	
E06-D05	With 2 rings (5+6 membered) and two N	
E06-D06	With 2 rings (both 6 membered) and two N	
E06-D07	Others with 2 rings and two N	
E06-D08	With 2 rings and three N Including benzotriazole	
E06-D09	With 2 rings and four N	
E06-D10	With 2 rings and > four N	

E06-D11	Acridine	
E06-D12	Dibenzo[b,f]azepine	
E06-D13	Others with 3 rings and one N	
E06-D14	Phenazine	
E06-D15	Carbolines; phenanthrolines i.e. Benzo-1,2:3,4-dipyridines.	
E06-D16	Others with 3 rings and two N	
E06-D17	With 3 rings and > two N	
E06-D18	With more than 3 rings	
E06-D	General	1994
E06-E	SOLE HETEROS O AND N	
E06-E01	Benzoxazole, benzisoxazoles	
E06-E02	Benzoxazines	
E06-E03	Others with 2 rings	
E06-E04	Phenoxazine	
E06-E05	Others with more than 2 rings	
E06-F	SOLE HETEROS S AND N	
E06-F01	Benzothiazole, benzisothiazoles	
E06-F02	Benzothiazines	
E06-F03	Others with 2 rings	
E06-F04	Phenothiazine	
E06-F05	Others with more than 2 rings	
E06-G	SOLE HETEROS O AND S AND N	
E06-G	General	
E06-H	FUSED RING - GENERAL	
E06-H	General This code is used for general disclosures when no specific hetero-ring system is present or when many are present.	



**E07 HETEROCYCLIC, MONONUCLEAR**

The specific compounds listed include all reduced derivatives and tautomers, unless specifically excluded.

**Note**

1. For systems containing ring elements other than C, O, S and N see E05.
2. Specific ring systems in a compound are each coded, except that an E07 ring is not coded if an E06 system is present in the same compound.
3. If there is an essential mono hetero-ring and (optionally) another variable mono hetero-ring, only the essential ring is coded, and not the variable ring nor E07-H.

E07-A	SOLE HETERO(S) OXYGEN	
E07-A	Oxygen-containing monoheterocyclic-general	2005
E07-A01	Furan excluding tetrahydrofuran	
E07-A02	Tetrahydro-(furan or pyran) - general	
E07-A02A	. Tetrahydrofuran and tetrahydropyran	1986
E07-A02B	. Tetrahydrofuran with =O & -O-substituents	1986
E07-A02C	. Tetrahydrofuran with =O, no -O-substituents	1986
E07-A02D	. Tetrahydrofuran with no =O, with -O- substituents	1986
E07-A02E	. Tetrahydrofuran with no =O, no -O-substituents	1986
E07-A02F	. Tetrahydropyran with =O & -O-substituents	1986
E07-A02G	. Tetrahydropyran with =O, no -O-substituents	1986
E07-A02H	. Tetrahydropyran with no =O, with -O- substituents	1986
E07-A02J	. Tetrahydropyran with no =O, no -O-substituents	1986
E07-A03	Other ring with one O - general	
E07-A03A	. Oxiran from (halo)hydrocarbon	1975
E07-A03B	. Other oxiran	1975
E07-A03C	. Others with one O e.g. (Dihydro-)pyran.	1975
E07-A04	Ring with more than one O	

E07-B	SOLE HETERO(S) SULPHUR	
E07-B01	Thiophene	
E07-B02	Others with one S	
E07-B03	Others with more than one S	
E07-C	SOLE HETERO(S) O AND S	
E07-C	General	
E07-D	SOLE HETERO(S) NITROGEN	
E07-D	General	1994
E07-D01	With one N, < 5 membered	
E07-D02	Pyrrole, excluding pyrrolidine	
E07-D03	Pyrrolidine	
E07-D04	Pyridine, excluding piperidine - general	
E07-D04A	. (Hydro)pyridinium, N(V) N(V) e.g. for N-oxide	1986
E07-D04B	. Pyridine production	1986
E07-D04C	. Pyridine use	1986
E07-D04D	. Di-, tetra-hydropyridine	1986
E07-D05	Piperidine	
E07-D06	With > one N, > 6 membered	
E07-D07	With > one N, < 5 membered	
E07-D08	Pyrazole	
E07-D09	Imidazole - general	
E07-D09A	. (Hydro)imidazolium, N(V) N(V) e.g. for N-oxide	1986
E07-D09B	. Imidazole	1986
E07-D09C	. Dihydroimidazole	1986
E07-D09D	. Tetrahydroimidazole	1986
E07-D10	Pyr(id)azine, excluding piperazine	
E07-D11	Piperazine	
E07-D12	Pyrimidine	
E07-D13	Others with more than one N - general	
E07-D13A	. Production of 1,3,5-triazines	1975
E07-D13B	. Use of 1,3,5-triazines	1975
E07-D13C	. General, excluding 1,3,5-triazines	1975

E07-E	SOLE HETEROS O AND N
E07-E01	With one O and one N, < 6 membered
E07-E02	Oxazines, excluding morpholine
E07-E03	Morpholine
E07-E04	Others
E07-F	SOLE HETEROS S AND N
E07-F01	With one S and one N, < 6 membered
E07-F02	Thiazines
E07-F03	Others
E07-G	SOLE HETEROS O AND S AND N
E07-G	General
E07-H	MONONUCLEAR HETEROCYCLIC - GENERAL These codes are used for general disclosures when no specific hetero-ring system is present or when many are present.
E07-H	General
E07-H01	Production, where ring linked directly to -C(=O)-, -C(=S) -C(=N)-, -CN or heteroatom
	1975
E07-H02	Others, production
	1975
E07-H03	Use of E07-H01 type heterocyclic
	1975
E07-H04	Others, use
	1975

## E08 AROMATIC, POLYCARBOCYCLIC

Includes only those compounds containing more than two carbocyclic rings fused together, at least one of which is 6-membered with 3 conjugated double bonds (or quinone derivatives thereof). Mono- and bi-cyclo-aromatics are coded in E10.

E08-A	AT LEAST SIX RINGS FUSED
E08-A	General
E08-B	FIVE RINGS FUSED
E08-B	General
E08-C	FOUR RINGS FUSED
E08-C01	6:6:6:6 carbon atoms per ring
E08-C02	Others
E08-D	THREE RINGS FUSED
E08-D01	6:6:7 carbon atoms per ring
E08-D02	6:6:6 carbon atoms per ring
E08-D03	Others
E08-H	AROMATIC POLYCARBOCYCLE GENERAL
E08-H	General

## E09 ALICYCLIC, POLYCARBOCYCLIC

Includes only compounds containing more than two carbocyclic rings fused together, other than aromatics (see E08). Mono- and bi- cycloalkyl compounds are coded in E10.

E09-A	AT LEAST SIX RINGS FUSED
E09-A	General
E09-B	FIVE RINGS FUSED
E09-B	General
E09-C	FOUR RINGS FUSED
E09-C01	6:6:6:6 carbon atoms per ring
E09-C02	Others
E09-D	THREE RINGS FUSED
E09-D01	6:6:6 carbon atoms per ring
E09-D02	Others
E09-H	ALICYCLIC POLYCARBOCYCLE GENERAL
E09-H	General

## E10 AROMATIC AND CYCLOALIPHATIC (MONO AND BICYCLIC ONLY), ALIPHATIC

In E10, compounds are coded according to the type of functional group present (if any). Only one code is applied to a specific compound according to the following order of priority:-

E10-A > E10-B → E10-J and 01 > 02 > 03 etc.

Thus E10-A01 is the highest, and E10-J02D is the lowest priority code.

### Note

- For acidic or basic salts see the parent compounds (i.e. amines, acids, etc.).
- For all cyclic derivatives of the groups listed in section E10, see E01 to E07.
- For groups not listed in section E10, the highest priority segment of the group is used as its coding feature. For example, semi-carbazones are coded E10-A13B only, and **not** E10-A19 nor E10-A20.
- From 198601 the more general codes E10-B01, -B02, -B03, -B04, -C04 and H02 were introduced and are used only where e.g. unspecified 'amines' are given, to save using many codes.

E10-A	RARER CHEMICAL GROUPS	
E10-A01	Sulphonium, halonium, carbonium, oxonium, aminimide, ylid, free radical	
E10-A02	Halogen bonded to Hal, N or O	
E10-A03	Nitrogen oxide, nitroso, nitron, azoxy, nitrolic acid Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-A03A	. Nitron, nitrolic acid	2002
E10-A03B	. Nitrogen oxide (R <sub>3</sub> NV=O), azoxy (R-N=N(=O)-R) Excluding nitrones, nitrolic acids	2002
E10-A03C	. Nitroso (R-N=O) Excluding nitrones, nitrolic acids	2002
E10-A04	Peroxide, polysulphide - general Excluding thiosulphate, etc.	
E10-A04A	. Polysulphide	1986
E10-A04B	. Peroxide	1986
E10-A04B1	.. Aromatic peroxides, gen Peroxides of Aromatic Acids or alcohols, e.g. R-OO- ; RCO-O-O-; R-SO <sub>2</sub> -O-O-	2002

E10-A04B1A	... Diacylperoxides e.g. RCO-O-O-CO-R; R-SO <sub>2</sub> -O-O-SO <sub>2</sub> -R	2002
E10-A04B1B	... Peresters e.g. R-CO-O-O-R, RSO <sub>2</sub> -O-O-R	2002
E10-A04B1C	... Peracids e.g. R-CO-O-O-H; R-SO <sub>2</sub> -O-O-H	2002
E10-A04B1D	... Peroxides, other e.g. Ph-O-O-tBu;	2002
E10-A04B1E	... Hydroperoxides, other e.g. Ph-O-O-H	2002
E10-A04B2	.. (Cyclo)aliphatic peroxides, gen Peroxides of non-Aromatic Acids or alcohols	2002
E10-A04B2A	... Diacylperoxides e.g. RCO-O-O-CO-R; R-SO <sub>2</sub> -O-O-SO <sub>2</sub> -R	2002
E10-A04B2B	... Peresters e.g. R-CO-O-O-R, RSO <sub>2</sub> -O-O-R	2002
E10-A04B2C	... Peracids e.g. R-CO-O-O-H; R-SO <sub>2</sub> -O-O-H	2002
E10-A04B2D	... Peroxides, other e.g. PhCH <sub>2</sub> -O-O-tBu;	2002
E10-A04B2E	... Hydroperoxides, other e.g. tBu-O-O-H	2002
E10-A05	Nitrate, nitrite Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-A06	Quinone (derivative)  Now coded as: E10-A06A, E10-A06B	1970-1993
E10-A06A	. Quinone  Previous code(s): E10-A06	1994
E10-A06B	. Quinone derivative (except those with higher priority)  Previous code(s): E10-A06	1994
E10-A07	Sugar Oxygen atom(s) may be replaced by sulphur atom(s). This code includes all derivatives except those of higher priority. Sugars containing free ketonic or aldehyde function are coded in open chain (not cyclic) form. For example, glucose is coded E10-A07 but methyl glucoside is coded E07-A02H.	

E10-A07A	. <b>Unmodified sugar</b> Including ethers and esters thereof	2005	E10-A09B4	. <b>Aromatic sulphonic acid - with no hetero group (atom), use</b>	1975
E10-A07B	. <b>Sugar alcohol</b> Including ethers and esters thereof	2005	E10-A09B5	. <b>(Cyclo)aliphatic sulphonic acid - with no hetero group (atom), use</b>	1975
E10-A07C	. <b>Sugar acid</b> Including ethers and esters thereof	2005	E10-A09C	<b>Other S acid</b> Oxygen atom(s) may be replaced by sulphur atom(s). This code includes all derivatives except those of higher priority.	
E10-A07D	. <b>Sugar amine</b>	2005	E10-A10	<b>Sulphone, sulfoxide - general</b> Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-A07E	. <b>Other sugar derivatives</b>	2005	E10-A10A	. <b>Sulfoxide</b>	1986
E10-A08	<b>Amide of sulphur acid - general</b>		E10-A10B	. <b>Diaryl sulphone</b> Both aryl groups attached directly to one -SO <sub>2</sub> -.	1986
E10-A08A	. <b>Aromatic ring to N</b>	1986	E10-A10C	. <b>Monoaryl sulphone</b> Aryl group attached directly to -SO <sub>2</sub> -	1986
E10-A08B	. <b>Aromatic ring to S</b>	1986	E10-A10D	. <b>Other</b>	1986
E10-A08C	. <b>Other</b>	1986	E10-A11A	<b>Thiocarbonic acid</b> Codes E10-A11A to E10-A12C2 include all corresponding derivatives except those of higher priority	1970-1993 <i>Now coded as: E10-A11A1, E10-A11A2</i>
E10-A09A	. <b>Sulphuric(ous) acid</b> Oxygen atom(s) may be replaced by sulphur atom(s). This code includes all derivatives except those of higher priority.		E10-A11A1	. <b>Thiocarbonic acid, production</b>	1994
E10-A09A1	.. <b>Ether sulfates</b> Sulfuric acid esters of ethoxylated alcohols	2005	E10-A11A2	. <b>Thiocarbonic acid, use</b>	1994
E10-A09A2	.. <b>Aliphatic sulfates</b>	2005	E10-A11B	<b>Carbonic acid</b>	1970-1993 <i>Now coded as: E10-A11B1, E10-A11B2</i>
E10-A09A3	.. <b>Aromatic sulfates</b>	2005	E10-A11B1	. <b>Carbonic acid, production</b>	1994
E10-A09A4	.. <b>Other derivatives</b>	2005	E10-A11B2	. <b>Carbonic acid, use</b>	1994
E10-A09B	<b>Sulphonic acid - general</b> Codes E10-A09B to E10-A09B5 include all derivatives except those of higher priority and oxygen atom(s) may be replaced by sulphur atom(s).		E10-A12A	<b>Dithiocarbamic acid</b>	1970-1993 <i>Now coded as: E10-A12A1, E10-A12A2</i>
E10-A09B1	. <b>(Thio)sulphonic ester, halide, anhydride; thiosulphonic acid</b>	1975	E10-A12A1	. <b>Dithiocarbamic acid, production</b>	1994
E10-A09B2	. <b>Sulphonic acid - with hetero group (atom) - general</b>	1975	E10-A12A2	. <b>Dithiocarbamic acid, use</b>	1994
E10-A09B6	.. <b>fused ring(s) present</b>	1986	E10-A12B	<b>Monothiocarbamic acid</b>	1970-1993 <i>Now coded as: E10-A12B1, E10-A12B2</i>
E10-A09B7	.. <b>single ring(s) present</b>	1986			
E10-A09B8	.. <b>no ring(s) present</b> N.B. These last three codes are subdivisions of E10-A09B2	1986			
E10-A09B3	. <b>Sulphonic acid - with no hetero group (atom), production</b>	1975			

E10-A12B1	. <b>Monothiocarbamic acid, production</b>	1994	E10-A15C	. <b>Cyanide with aliphatic unsaturation, use</b>	1975
	<i>Previous code(s): E10-A12B</i>				
E10-A12B2	. <b>Monothiocarbamic acid, use</b>	1994	E10-A15D	. <b>Other cyanide, production with CN formation</b>	1975
	<i>Previous code(s): E10-A12B</i>				
E10-A12C	<b>Carbamic acid</b>	1970-1993	E10-A15E	. <b>Other cyanide, production without CN formation</b>	
	<i>Now coded as: E10-A12C1, E10-A12C2</i>			-CN group is in a starting material and remains bonded to the same atom when in the product.	1975
E10-A12C1	. <b>Carbamic acid, production</b>	1994	E10-A15F	. <b>Other cyanide, use</b>	1975
	<i>Previous code(s): E10-A12C</i>				
E10-A12C2	. <b>Carbamic acid, use</b>	1994	E10-A16	<b>Azide, azo, diazo(nium)</b>	1970-1993
	<i>Previous code(s): E10-A12C</i>			<i>Now coded as: E10-A16A, E10-A16B</i>	
E10-A13A	<b>(Iso)thiourea</b>	1970-1993	E10-A16A	. <b>Azide, azo, diazo(nium), production</b>	1994
	<i>Now coded as: E10-A13A1, E10-A13A2</i>			<i>Previous code(s): E10-A16</i>	
E10-A13A1	. <b>(Iso)thiourea, production</b>	1994	E10-A16B	. <b>Azide, azo, diazo(nium), use</b>	1994
	<i>Previous code(s): E10-A13A</i>			<i>Previous code(s): E10-A16</i>	
E10-A13A2	. <b>(Iso)thiourea, use</b>	1994	E10-A17	<b>Biguanide, guanidine, amidine</b>	1970-1993
	<i>Previous code(s): E10-A13A</i>			<i>Now coded as: E10-A17A, E10-A17B</i>	
E10-A13B	<b>(Iso)urea</b>	1970-1993	E10-A17A	. <b>Biguanide, guanidine, amidine, production</b>	1994
	<i>Now coded as: E10-A13B1, E10-A13B2</i>			<i>Previous code(s): E10-A17</i>	
E10-A13B1	. <b>(Iso)urea, production</b>	1994	E10-A17B	. <b>Biguanide, guanidine, amidine, use</b>	1994
	<i>Previous code(s): E10-A13B</i>			<i>Previous code(s): E10-A17</i>	
E10-A13B2	. <b>(Iso)urea, use</b>	1994	E10-A18	<b>Hydroxylamine</b>	1970-1993
	<i>Previous code(s): E10-A13B</i>			<i>Now coded as: E10-A18A, E10-A18B</i>	
E10-A14	<b>(Iso)cyanate, nitrile oxide</b>	1970-1993	E10-A18A	. <b>Hydroxylamine, production</b>	1994
	Oxygen atom may be replaced by sulphur atom.			<i>Previous code(s): E10-A18</i>	
	<i>Now coded as: E10-A14A, E10-A14B</i>		E10-A18B	. <b>Hydroxylamine, use</b>	1994
E10-A14A	. <b>(Iso)cyanate, nitrile oxide, production</b>	1994		<i>Previous code(s): E10-A18</i>	
	Oxygen atom may be replaced by sulphur atom.		E10-A19	<b>Hydrazine</b>	1970-1993
	<i>Previous code(s): E10-A14</i>			<i>Now coded as: E10-A19A, E10-A19B</i>	
E10-A14B	. <b>(Iso)cyanate, nitrile oxide, use</b>	1994	E10-A19A	. <b>Hydrazine, production</b>	1994
	Oxygen atom may be replaced by sulphur atom.			<i>Previous code(s): E10-A19</i>	
	<i>Previous code(s): E10-A14</i>		E10-A19B	. <b>Hydrazine, use</b>	1994
E10-A15	<b>(Iso)cyanide - general</b>			<i>Previous code(s): E10-A19</i>	
E10-A15A	. <b>Poly(iso)cyanide and monoisocyanide</b>	1975	E10-A20	<b>Imine</b>	1970-1993
				<i>Now coded as: E10-A20A, E10-A20B</i>	
E10-A15B	. <b>Cyanide with aliphatic unsaturation, production</b>	1975	E10-A20A	. <b>Imine, production</b>	1994
				<i>Previous code(s): E10-A20</i>	

E10-A20B	. Imine, use  Previous code(s): E10-A20	1994
E10-A21	<b>Quaternary ammonium (bis or poly)</b> Where a patent claims amines and their quaternary ammonium salts, only the code corresponding to the parent amine is applied. Thus to obtain all relevant quaternary compounds, two searches must be made.	
E10-A22	<b>Quaternary ammonium (mono) - general</b>	
E10-A22A	. Aromatic ring present	1986
E10-A22B	. No Aromatic ring - general	1986
E10-A22C	.. No Aromatic ring - with amine	1986
E10-A22D	.. No Aromatic ring - with acid (derivative)	1986
E10-A22E	.. No Aromatic ring - with OH, ether	1986
E10-A22F	.. No Aromatic ring - with other hetero group (atom)	1986
E10-A22G	.. No Aromatic ring - with no hetero atom(s)	1986
E10-A23	<b>Acetal, ketal</b> Including those with C atom in a ring. Oxygen atom(s) may be replaced by sulphur atom(s).  Now coded as: E10-A23A, E10-A23B	1970-1993
E10-A23A	. Acetal, ketal, production Including those with C atom in a ring. Oxygen atom(s) may be replaced by sulphur atom(s).  Previous code(s): E10-A23	1994
E10-A23B	. Acetal, ketal, use Including those with C atoms in a ring. Oxygen atom(s) may be replaced by sulphur atom(s).  Previous code(s): E10-A23	1994
E10-A24	<b>Imide</b> Oxygen atom(s) may be replaced by sulphur atom(s).  Now coded as: E10-A24A, E10-A24B	1970-1993
E10-A24A	. Imide, production Oxygen atom(s) may be replaced by sulphur atom(s).  Previous code(s): E10-A24	1994
E10-A24B	. Imide, use Oxygen atom(s) may be replaced by sulphur atom(s).  Previous code(s): E10-A24	1994
E10-A25	<b>Acid anhydride, halide (carboxylic only)</b> Oxygen atom(s) may be replaced by sulphur atom(s).  Now coded as: E10-A25A1, E10-A25A2, E10-A25B1, E10-A25B2	1970-1993
E10-A25A1	. Acid anhydride, production Oxygen atom(s) may be replaced by sulphur atom(s).  Previous code(s): E10-A25	1994
E10-A25A2	. Acid anhydride, use Oxygen atom(s) may be replaced by sulphur atom(s).  Previous code(s): E10-A25	1994
E10-A25B1	. Acid halide, production Oxygen atom(s) may be replaced by sulphur atom(s).  Previous code(s): E10-A25	1994
E10-A25B2	. Acid halide, use Oxygen atom(s) may be replaced by sulphur atom(s).  Previous code(s): E10-A25	1994
E10-B	<b>AMINES</b>	
E10-B01	Polyamine - general	1986
E10-B01A	. Polyamine, at least 1 amine 'aromatic' - general i.e. Amino N on aromatic ring C.	
E10-B01A1	.. with acid (derivative)	1986
E10-B01A2	.. With OH, ether	1986
E10-B01A3	.. other, production	1986
E10-B01A4	.. other, use	1986
E10-B01B	. Polyamine with no amine aromatic - general	
E10-B01C	.. Non-aromatic Polyamine, with Carboxylic acid, ester or amide group	1975
E10-B01C1	... With Carboxylic acid group	2002
E10-B01C2	... With Carboxylic acid ester group	2002
E10-B01C3	... With Carboxylic acid amide group	2002

E10-B01D	.. with hydroxy, mercapto or (thio)ether group	1975	E10-B03A	. Amino-phenol, - alcohol or ether – <b>general (amine aromatic)</b> N directly attached to aromatic ring; Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-B01E	.. others	1975	E10-B03A1	.. Aromatic Amino-phenol	2002
E10-B02	Amino-acid, -ester or -amide - general	1986	E10-B03A2	.. Aromatic Amino-alcohol e.g. Ph-NH-C <sub>2</sub> H <sub>4</sub> -OH	2002
E10-B02A	. Aromatic amino-acid, -ester or -amide group Oxygen atom(s) may be replaced by sulphur atom(s).		E10-B03A3	.. Aromatic Amino-ether e.g. Ph-NH-C <sub>2</sub> H <sub>4</sub> -OR	2002
E10-B02A1	.. With Carboxylic acid group	2002	E10-B03B	. Amino-phenol, - alcohol or ether – <b>general (amine not aromatic)</b> N NOT directly attached to aromatic ring; Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-B02A2	.. With Carboxylic acid ester group	2002	E10-B03B1	.. Amino-phenol e.g. NH <sub>2</sub> C <sub>2</sub> H <sub>4</sub> -O-p C <sub>6</sub> H <sub>4</sub> -OH	2002
E10-B02A3	.. With Carboxylic acid amide group	2002	E10-B03B2	.. Amino-alcohol Includes mono, di and tri alkanolamines e.g. NH <sub>2</sub> -C <sub>2</sub> H <sub>4</sub> -OH	2002
E10-B02B	. Amino-acid, -ester or -amide (amine not aromatic) - general Oxygen atom(s) may be replaced by sulphur atom(s).		E10-B03B3	.. Aminopolyether e.g. NH <sub>2</sub> -(C <sub>2</sub> H <sub>4</sub> -O) <sub>n</sub> -R	2002
E10-B02C	.. mixtures containing at least 3 naturally occurring amino acids	1975	E10-B03B4	.. Amino-ether e.g. NH <sub>2</sub> -C <sub>2</sub> H <sub>4</sub> -OR	2002
E10-B02D	.. Alpha-amino acid (or derivative of carboxyl group) general. Primary amine, only one side-chain which...	1975	E10-B04	Amine mono - general	1986
E10-B02D1	... contains S e.g. Cys, Met	1986	E10-B04A	. Other aromatic amine <i>Now coded as: E10-B04A1, E10-B04A2</i>	1970-1993
E10-B02D2	... contains benzene and phenolic OH e.g. Tyr	1986	E10-B04A1	.. Other aromatic amine, production <i>Previous code(s): E10-B04A</i>	1994
E10-B02D3	... is benzyl unsubstituted i.e. Phe	1986	E10-B04A2	.. Other aromatic amine, use <i>Previous code(s): E10-B04A</i>	1994
E10-B02D4	... contains alcohol (derivative) e.g. Ser, Thr	1986	E10-B04B	. Other non-aromatic amine - <b>general</b>	
E10-B02D5	... contains acid (derivative) e.g. Asp, Glu	1986	E10-B04C	. Production of Other non-aromatic amine	1975
E10-B02D6	... is alkyl unsubstituted e.g. Ala, Gly, Ile, Leu, Val	1986	E10-B04C1	.. Primary amine	2002
E10-B02D7	... Primary amine other	1986	E10-B04C2	.. Secondary or tertiary amine	2002
E10-B02D8	... Secondary, tertiary amine	1986	E10-B04D	. Use of unsubstituted aliphatic amine Excluding cycloaliphatic	1975
E10-B02E	.. others Oxygen atom(s) may be replaced by sulphur atom(s).	1975	E10-B04D1	.. Primary amine	2002
E10-B03	Amino-phenol, - alcohol or ether - <b>general</b> Oxygen atom(s) may be replaced by sulphur atom(s).	1986			

E10-B04D2	.. Secondary or tertiary amine	2002	E10-C03	CA with phenol or phenolic ester or ether group(s) Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-B04E	. Use of other aliphatic amine Including cycloaliphatic, substituted aliphatic	1975	E10-C04	Other carboxylic acid - general	1986
E10-B04E1	.. Primary amine	2002	E10-C04A	. CA with cycloaliphatic ring system	
E10-B04E2	.. Secondary or tertiary amine	2002	E10-C04B	. Hydroxy, aldehyde or ketonic CA (or ethers thereof) with an aromatic ring Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-C	CARBOXYLIC ACIDS (CA)		E10-C04C	. Other CA with aromatic ring	
E10-C01	Thio-CA		E10-C04D	. Acyclic hydroxy, aldehyde or ketonic CA and acyclic ether thereof - general Oxygen atom(s) may be replaced by sulphur atom(s).	
E10-C02	Poly-CA - general		E10-C04D1	.. aldehyde, ketone present	1986
E10-C02A	. Citric or isocitric acid	1975	E10-C04D2	.. S present	1986
E10-C02B	. Others with > 2 carboxy groups	1975	E10-C04D3	.. ether present	1986
E10-C02C	. Di-CA with carbocyclic ring(s) Now coded as: E10-C02C1, E10-C02C2	1975-1993	E10-C04D4	.. alpha OH acid	1986
E10-C02C1	.. Di-CA with carbocyclic ring(s), production Applied if both codes below could be applied. Previous code(s): E10-C02C	1994	E10-C04D5	.. other OH acid	1986
E10-C02C1A	... Di-CA with aromatic ring, production	2010	E10-C04E	. Other acyclic mono-CA - general	
E10-C02C1B	... Di-CA with cycloaliphatic ring, production	2010	E10-C04F	. substituted acyclic acid	1975
E10-C02C2	.. Di-CA with carbocyclic ring(s), use Applied if both codes below could be applied. Previous code(s): E10-C02C	1994	E10-C04G	. (meth)acrylic acid	1975
E10-C02C2A	... Di-CA with aromatic ring, use	2010	E10-C04G1	.. (Meth)acrylic acid, prodn	2002
E10-C02C2B	... Di-CA with cycloaliphatic ring, use	2010	E10-C04G1A	... Acrylic Acid, production. Specifically AA production	2002
E10-C02D	. Oxalic acid; unsubstituted alkylene di-CA Now coded as: E10-C02D1, E10-C02D2	1975-1993	E10-C04G1B	... Methacrylic Acid, production Specifically MA production	2002
E10-C02D1	.. Oxalic acid Previous code(s): E10-C02D	1994	E10-C04G2	.. (Meth)acrylic acid, use	2002
E10-C02D2	.. Unsubstituted alkylene di-CA Previous code(s): E10-C02D	1994	E10-C04G2A	... Acrylic Acid, Use. Use of AA Specifically	2002
E10-C02E	. Other di-CA, production	1975	E10-C04G2B	... Methacrylic Acid, Use. Use of MA Specifically	2002
E10-C02F	. Other di-CA, use	1975	E10-C04H	. other unsaturated unsubstituted acid	1975
			E10-C04J	. formic, acetic acid Now coded as: E10-C04J1, E10-C04J2	1975-1993



E10-C04J1	.. Formic acid, gen	1994	E10-D03C2	.. Amide of >1C unsubstituted fatty acid, optionally unsaturated, N-substituted by poly ether	2002
	<i>Previous code(s): E10-C04J</i>			Including polyetheralcohols, esters; e.g. R-CO1-N (-R'-O)n-R' R' = H, C, -CO1-R, etc.	
E10-C04J1P	... Formic acid, production	2002			
E10-C04J1U	... Formic acid, Use	2002	E10-D03C3	.. Amide of >1C unsubstituted fatty acid, optionally unsaturated, optionally N-substituted.	2002
E10-C04J2	.. Acetic acid, gen	1994		Excluding N-polyether derivatives (coded E10-D03C2)	
	<i>Previous code(s): E10-C04J</i>				
E10-C04J2P	... Acetic Acid, Production	2002	E10-D03D	. Others	1975
E10-C04J2U	... Acetic Acid, Use	2002			
E10-C04K	. other acid, production	1975	E10-E	<b>HYDROXY COMPOUNDS</b>	
E10-C04L	. other acid, use - general	1975		Within section E10-E02 the term <b>naphthol</b> includes all aromatic bicyclic compounds with phenolic OH. e.g. 1H-Inden-4-ol or 5, 6, 7, 8-tetrahydro-1-naphthol.	
E10-C04L1	.. 2-9C	1986	E10-E01	Thiophenols, thionaphthols	
	Excluding C of carboxy.		E10-E01P	. Thiophenols, thionaphthols - production	2002
E10-C04L2	.. 10+C	1986			
	Excluding C of carboxy.		E10-E01U	. Thiophenols, thionaphthols - Use	2002
<b>E10-D</b>	<b>ALDEHYDES AND CARBOXYLIC AMIDES</b>		E10-E02	Phenol - general	1970-1993
E10-D01	Aldehyde - general			<i>Now coded as: E10-E02P, E10-E02U</i>	
	Oxygen atom(s) may be replaced by sulphur atom(s).		E10-E02A	. Polyphenol, polynaphthol, production	1975
E10-D01A	. (Meth)acrolein, production	1975	E10-E02B	. Phenol or naphthol (optionally substituted only by hydrocarbyl) production	1975-1993
E10-D01B	. Other aldehyde, production by olefin oxidation	1975		<i>Now coded as: E10-E02B1, E10-E02B2</i>	
E10-D01C	. Other aldehyde, production by other methods	1975	E10-E02B1	.. Phenol (optionally substituted only by hydrocarbyl) production	1994
	Oxygen atom(s) may be replaced by sulphur atom(s).			<i>Previous code(s): E10-E02B</i>	
E10-D01D	. Use	1975	E10-E02B2	.. Naphthol (optionally substituted only by hydrocarbyl) production	1994
	Oxygen atom(s) may be replaced by sulphur atom(s).			<i>Previous code(s): E10-E02B</i>	
E10-D02	Carboxylic amide, thio		E10-E02C	. Other phenol, production	1975-1993
E10-D03	Carboxylic amide - general			<i>Now coded as: E10-E02C1, E10-E02C2</i>	
E10-D03A	. Polyamide	1975	E10-E02C1	.. Other phenol, production	1994
E10-D03B	. Containing phenol group(s)	1975		<i>Previous code(s): E10-E02C</i>	
E10-D03C	. Amide of unsubstituted fatty acid, optionally unsaturated, optionally N-substituted	1975	E10-E02C2	.. Other naphthol, production	1994
				<i>Previous code(s): E10-E02C</i>	
E10-D03C1	.. Formamides, opt. N-substituted	2002	E10-E02D	. Polyphenol, polynaphthol, use - general	1975
			E10-E02D1	.. nitro, S, X present	1986

E10-E02D2	.. O present, other than phenol	1986	E10-E03G	. Polythiol contg. Carboxylic ester gp, use	2002
E10-E02D3	.. with 3 or more phenolic OH	1986	E10-E03H	. Unsubstituted alkane polythiol, use	2002
E10-E02D4	.. with 2 phenolic OH and 2 or more ring systems	1986	E10-E03J	. Other polymercaptoalkanes, use	2002
E10-E02D5	.. with 2 phenolic OH and 1 ring system	1986	E10-E03K	. Monothiol containing Carboxylic ester gp, use	2002
E10-E02E	. Phenol or naphthol (optionally substituted only by hydrocarbyl), use	1975-1993 Now coded as: E10-E02E1, E10-E02E2	E10-E03L	. Unsubstituted alkanethiol, use	2002
E10-E02E1	.. Phenol (optionally substituted only by hydrocarbyl) use	1994 Previous code(s): E10-E02E	E10-E03M	. Other alkanethiol, use	2002
E10-E02E2	.. Naphthol (optionally substituted only by hydrocarbyl) use	1994 Previous code(s): E10-E02E	E10-E04	Alcohol - general	
E10-E02F	. Other phenol, use	1975-1993 Now coded as: E10-E02F1, E10-E02F2	E10-E04A	. Polyhydric containing carboxylic ester group(s) production	1975
E10-E02F1	.. Other phenol, use	1994 Previous code(s): E10-E02F	E10-E04B	. Unsubstituted polyhydroxy-alkane, production	1975
E10-E02F2	.. Other naphthol, use	1994 Previous code(s): E10-E02F	E10-E04C	. Other polyhydric alcohol, production	1975
E10-E02P	Phenol, naphthol, general, production	1994 Previous code(s): E10-E02	E10-E04C1	.. Polyetherpolyol, production Incl polyglycol-, polyglyceryl-, ethers	2002
E10-E02U	Phenol, naphthol, general - use	1994 Previous code(s): E10-E02	E10-E04C2	.. Other polyhydric alcohol, production	2002
E10-E03	Thioalcohols - general		E10-E04D	. Monohydric containing carboxylic ester group(s), production	1975
E10-E03A	. Polythiol contg. Carboxylic ester gp, production.	2002	E10-E04D1	.. Monohydric contg Polyetherpolyol carboxylic ester group(s), production [RCO(-O-R') <sub>n</sub> -O] <sub>m</sub> -R-OH (m>0, n>1)	2002
E10-E03B	. Unsubstituted alkane polythiol, production	2002	E10-E04D2	.. Other monohydric alcohol containing carboxylic ester(s), production	2002
E10-E03C	. Other polymercaptoalkanes, production	2002	E10-E04E	. Unsubstituted alkanol production - general	1975
E10-E03D	. Monothiol containing Carboxylic ester gp, production	2002	E10-E04E1	.. methanol	1986
E10-E03E	. Unsubstituted alkanethiol, production	2002	E10-E04E2	.. ethanol	1986
E10-E03F	. Other alkanethiol production	2002	E10-E04E3	.. propanols, butanols	1986
			E10-E04E4	.. with 5-10C	1986
			E10-E04E5	.. with 11 or more C	1986
			E10-E04F	. Other monohydric alcohol, production	1975

E10-E04G	. Polyhydric, containing carboxylic ester group(s) use	1975	E10-F	KETONES	
E10-E04H	. Unsubstituted polyhydroxy-alkane, use	1975	E10-F01	Thioketone	
E10-E04H1	.. Diol	2005	E10-F02	Ketone - general	
E10-E04H2	.. Triol	2005	E10-F02A	. With carbocyclic ring(s) - general	1975
E10-E04H3	.. 4 or more hydroxy Not including sugar alcohol see E10-A07B	2005	E10-F02A1	.. ketone on ring	1986
E10-E04J	. Other polyhydric alcohol, use	1975	E10-F02A2	.. ketone on chain of aromatic compound	1986
E10-E04J1	.. Ring present	2005	E10-F02A3	.. ketone on chain of alicyclic compound	1986
E10-E04J2	.. Ketone nitro, halogen or unsaturation present	2005	E10-F02B	. Other ketone, production	1975
E10-E04J3	.. Ether present, poly	2005	E10-F02C	. Other ketone, use	1975
E10-E04J4	.. Ether present, mono	2005	E10-G	CARBOXYLIC ESTERS AND NITRO COMPOUNDS	1994
E10-E04K	. Monohydric, containing carboxylic ester group(s) use	1975	E10-G01	Thiocarboxylic ester	
E10-E04L	. Unsubstituted alkanol, use - general	1975	E10-G02	Carboxylic ester - general	
E10-E04L1	.. methanol	1986	E10-G02P	. Production of esters- general	2005
E10-E04L2	.. ethanol	1986	E10-G02A	. With carbocyclic ring, production	1975-1993 Now coded as: E10-G02A1, E10-G02A2
E10-E04L3	.. propanols, butanols	1986	E10-G02A1	.. With aromatic ring, production	1994 Previous code(s): E10-G02A
E10-E04L4	.. with 5-10C	1986	E10-G02A2	.. With alicyclic ring, production	1994 Previous code(s): E10-G02A
E10-E04L5	.. with 11 or more C	1986	E10-G02B	. Other polyester, production	1975-1993 Now coded as: E10-G02B1, E10-G02B2
E10-E04M	. Other monohydric alcohol, use - general	1975	E10-G02B1	.. Aliphatic polyester with halogen or (thio)ether group(s), production	1994 Previous code(s): E10-G02B
E10-E04M1	.. ring(s) present	1986	E10-G02B2	.. Other aliphatic polyester production	1994 Previous code(s): E10-G02B
E10-E04M2	.. ketone, nitro, halogen or unsaturation present	1986	E10-G02C	. Aliphatic monoester with halogen or (thio)ether group(s), production	1975
E10-E04M3	.. ether present, poly	1986	E10-G02D	. Unsaturated monoester, production	1975
E10-E04M4	.. ether present, mono	1986	E10-G02D1	.. Monoesters of unsaturated alcohols and unsaturated acids (e.g. vinyl acrylate), Production	2002

E10-G02D2	.. Other Monoesters of unsaturated alcohols (e.g. vinyl acetate), Production	2002	E10-G03	Nitro - general	1994
E10-G02D3	.. (Meth)acrylic acid esters, Production	2002	E10-G03A	. With carbocyclic ring, production	1994
E10-G02D4	.. Monoesters of other unsaturated acids Production	2002	E10-G03B	. Other nitro, production	1994
E10-G02E	. Other aliphatic monoester, production	1975	E10-G03C	. With carbocyclic ring, use	1994
E10-G02U	. Use of esters-general	2005	E10-G03D	. Other nitro, use	1994
E10-G02F	. Ester with carbocyclic ring(s), use	1975-1993	E10-H	ETHERS AND HALOGEN COMPOUNDS	
	Now coded as: E10-G02F1, E10-G02F2		E10-H01	Ether and thioether - general	
E10-G02F1	.. Ester with aromatic ring, use	1994	E10-H01A	. Thioether with halogen	1986
E10-G02F2	.. Ester with alicyclic ring, use	1994	E10-H01B	. Thioether with no halogen	1986
E10-G02G	. Other polyester, use	1975-1993	E10-H01C	. Ether with halogen	1986
	Now coded as: E10-G02G1, E10-G02G2		E10-H01D	. Ether with no halogen, poly	1986
E10-G02G1	.. Aliphatic polyester with halogen or (thio)ether group(s), use	1994	E10-H01E	. Ether with no halogen, mono	1986
	Previous code(s): E10-G02G		E10-H02	Halogen - general	
E10-G02G2	.. Other aliphatic polyester, use	1994		From 199401, a new set of codes have been applied to halogen compounds which do not follow the same priority system, nor are they a subdivision, of the previous E10-H02 section codes.	
E10-G02H	. Other monoester, use	1975-1993	E10-H02A	. F, bonded to aromatic ring	1986-1993
	Now coded as: E10-G02H1, E10-G02H2		E10-H02B	. F, not bonded to aromatic ring	1970-1993
E10-G02H1	.. Aliphatic monoester with halogen or (thio)ether group(s), use	1994	E10-H02C	. Br or I, bonded to aromatic ring	1970-1993
	Previous code(s): E10-G02H		E10-H02D	. Br or I, not bonded to aromatic ring	1970-1993
E10-G02H2	.. Other aliphatic monoester, use gen	1994	E10-H02E	. Cl, bonded to aromatic ring	1970-1993
	Previous code(s): E10-G02H		E10-H02F	. Cl, not bonded to aromatic ring - general	1970-1993
E10-G02H2A	... Monoesters of unsaturated alcohols and unsaturated acids (e.g. vinyl acrylate), Use	2002	E10-H02G	.. containing carbocyclic ring(s); poly-chloro-alkene and -alkyne	1975-1993
E10-G02H2B	... Other Monoesters of unsaturated alcohols (e.g. vinyl acetate), Use	2002	E10-H02H	.. polychloroalkane	1975-1993
E10-G02H2C	... (Meth)acrylic acid esters), Use	2002	E10-H02J	.. monochloro-alkene and -alkyne	1975-1993
E10-G02H2D	... Monoesters of other unsaturated acids, Use	2002	E10-H02K	.. monochloro-alkane	1975-1993
E10-G02H2E	... Saturated aliphatic esters (other), Use	2002	E10-H03	Halogen production - general	1994
				Previous code(s): E10-H02	

E10-H03A	. F only production - general 1994 <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>	E10-H03D2	.. Other halogen compound, aliphatic, production 1994 <i>Previous code(s): E10-H02B, E10-H02D</i>
E10-H03A1	.. F only, F bonded to aromatic ring, production 1994 <i>Previous code(s): E10-H02A</i>	E10-H04	Halogen use - general 1994 <i>Previous code(s): E10-H02</i>
E10-H03A2	.. F only, other carbocyclic (including F on chain of aromatic ring), production 1994 <i>Previous code(s): E10-H02B</i>	E10-H04A	. F only use - general 1994 <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>
E10-H03A3	.. F only, aliphatic, production 1994 <i>Previous code(s): E10-H02B</i>	E10-H04A1	.. F only, F bonded to aromatic ring, use 1994 <i>Previous code(s): E10-H02A</i>
E10-H03B	. F + Cl only production - general 1994 <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>	E10-H04A2	.. F only, other carbocyclic (including F on chain of aromatic ring), use 1994 <i>Previous code(s): E10-H02B</i>
E10-H03B1	.. F + Cl only, carbocyclic, production 1994 <i>Previous code(s): E10-H02A, E10-H02B</i>	E10-H04A3	.. F only, aliphatic, use 1994 <i>Previous code(s): E10-H02B</i>
E10-H03B2	.. F + Cl only, aliphatic, production 1994 <i>Previous code(s): E10-H02B</i>	E10-H04B	. F + Cl only use - general 1994 <i>Previous code(s): E10-H02, E10-H02A, E10-H02B</i>
E10-H03C	. Cl only production - general 1994 <i>Previous code(s): E10-H02, E10-H02E, E10-H02F</i>	E10-H04B1	.. F + Cl only, carbocyclic, use 1994 <i>Previous code(s): E10-H02A, E10-H02B</i>
E10-H03C1	.. Cl only, Cl bonded to aromatic ring, production 1994 <i>Previous code(s): E10-H02E</i>	E10-H04B2	.. F + Cl only, aliphatic, use 1994 <i>Previous code(s): E10-H02B</i>
E10-H03C2	.. Cl only, other carbocyclic (including Cl on chain of aromatic ring), production 1994 <i>Previous code(s): E10-H02F, E10-H02G</i>	E10-H04C	. Cl only use - general 1994 <i>Previous code(s): E10-H02, E10-H02E, E10-H02F</i>
E10-H03C3	.. Cl only, unsaturated aliphatic, production 1994 <i>Previous code(s): E10-H02G, E10-H02J</i>	E10-H04C1	.. Cl only, Cl bonded to aromatic ring, use 1994 <i>Previous code(s): E10-H02E</i>
E10-H03C4	.. Polychloroalkane, production 1994 <i>Previous code(s): E10-H02H</i>	E10-H04C2	.. Cl only, other carbocyclic (including Cl on chain of aromatic ring), use 1994 <i>Previous code(s): E10-H02F, E10-H02G</i>
E10-H03C5	.. Monochloroalkane, production 1994 <i>Previous code(s): E10-H02K</i>	E10-H04C3	.. Cl only, unsaturated aliphatic, use 1994 <i>Previous code(s): E10-H02G, E10-H02J</i>
E10-H03D	. Other halogen compound production - general 1994 <i>Previous code(s): E10-H02</i>	E10-H04C4	.. Polychloroalkane, use 1994 <i>Previous code(s): E10-H02H</i>
E10-H03D1	.. Other halogen compound, carbocyclic, production 1994 <i>Previous code(s): E10-H02A, E10-H02B, E10-H02C, E10-H02D</i>	E10-H04C5	.. Monochloroalkane, use 1994 <i>Previous code(s): E10-H02K</i>
		E10-H04D	. Other halogen compound use - general 1994 <i>Previous code(s): E10-H02</i>

E10-H04D1	.. Other halogen compound, carbocyclic, use	1994
	<i>Previous code(s): E10-H02A, E10-H02B, E10-H02C, E10-H02D</i>	
E10-H04D2	.. Other halogen compound, aliphatic, use	1994
	<i>Previous code(s): E10-H02B, E10-H02D</i>	
E10-J	<b>HYDROCARBONS</b>	
E10-J01	-C≡C-, may form part of alicyclic ring	
E10-J02A	Cycloaliphatic ring system present	1970-1993
	<i>Now coded as: E10-J02A1, E10-J02A2</i>	
E10-J02A1	Cycloaliphatic ring system present, production	1994
	<i>Previous code(s): E10-J02A</i>	
E10-J02A2	Cycloaliphatic ring system present, use	1994
	<i>Previous code(s): E10-J02A</i>	
E10-J02B	Aromatic - general	
E10-J02B1	. Production by hydrodealkylation or disproportionation	1977
E10-J02B2	. Purification	1977
E10-J02B3	. Other production methods	1977
E10-J02B4	. Uses	1977
E10-J02C	Aliphatic olefinic - general	
E10-J02C1	. Production by oligomerisation	1977
E10-J02C2	. Production by disproportionation of other olefins	1977
E10-J02C3	. Other production methods	1977
E10-J02C4	. Uses	1977
E10-J02D	Aliphatic saturated - general	
E10-J02D1	. Methane	1986
E10-J02D2	. Ethane, Propane, (iso)butane	1986
E10-J02D3	. 5 or more C	1986

## E11 PROCESSES, APPARATUS

The codes in this section are applied to patents difficult to code chemically, i.e. insufficient chemical information has been provided. These codes are also used for general processes involving the use or production of organic dyes, pigments or inorganic compounds, and for analysis or treatment processes. E11-A to E11-K are only applied to organic reactions. There are a number of patents (Russia) whose inventive feature is the use made of vat residue, or waste from a production process, of undefined chemical composition. From 1994-2009 the codes applied to these patents included the code E11-T.

### CHEMICAL

E11-A	Cyclisation	1970-2006
	<i>Now coded as the more specific code(s) E11-A01, -A02</i>	
E11-A01	. Cyclisation – Processes, Apparatus	2006
E11-A02	. Decyclisation (Ring Opening) – Processes, Apparatus	2006
E11-B	<b>RING/CHAIN-EXPANSION/CONTRACTION</b>	1970-2001
	<i>Now coded as: E11-B01A, E11-F01, -F02, -F03, -G01, -G02</i>	
E11-B01	. Ring expansion/contraction	2002
	<i>Previously coded as: E11-B</i>	
E11-C	<b>DEPOLYMERISATION</b>	
E11-D	<b>HYDROGENATION, REDUCTION</b>	
	<i>Includes hydrogenolysis</i>	
E11-D01	. Hydrogenation of unsaturated C-C bonds	2006
E11-D02	. Hydrogenation Other	2006
E11-E	<b>OXIDATION, DEHYDROGENATION</b>	
E11-E01	. Oxidation with O <sub>2</sub> , Air	2006
E11-E02	. Dehydrogenation of C-C bonds	2006
E11-E03	. Other Oxidation, Dehydrogenation process	2006

<b>E11-F</b>	<b>ADDITION OR SUBSTITUTION REACTIONS – GENERAL/UNCLASSIFIED</b>	
<b>E11-F01</b>	. <b>Oligomerisation, telomerisation</b>	2002
	<i>Chain expansion previously coded under E11-B</i>	
<b>E11-F01A</b>	. <b>Dimerisation</b>	
	Dimerisation is a reaction in which two monomers combine to form a dimer. For example, conversion of ethene to butene.. <i>See also N07-D01A.</i>	2010
<b>E11-F02</b>	. <b>Addition reactions of CO and/or CO<sub>2</sub>: hydroformylation; (oxy)carbonylation; carboxylation; homologation; etc.</b>	2002
	<i>Chain expansion previously coded under E11-B</i>	
<b>E11-F02A</b>	.. <b>Addition of CO to olefin bonds (hydroformylation)</b>	2006
<b>E11-F02B</b>	.. <b>Other addition reactions of CO(2)</b>	2006
<b>E11-F03</b>	. <b>Alkylation, Acylation of C atoms; condensation; other carbon chain extension; reforming</b>	2002
	<i>Chain expansion previously coded under E11-B</i>	
<b>E11-F04</b>	. <b>Hydration, Hydroxylation</b>	2002
<b>E11-F05</b>	. <b>Etherification, acetalisation, O-alkylation</b>	2002
<b>E11-F06</b>	. <b>Esterification, O-acylation, anhydride formation</b>	2002
<b>E11-F07</b>	. <b>Addition of nitrogenous functions, (general)</b>	2002
<b>E11-F07A</b>	.. <b>Amination, N-alkylation, N-acylation</b>	2002
<b>E11-F07B</b>	.. <b>Nitration</b>	2002
<b>E11-F07C</b>	.. <b>Ammonia oxidation, Ammoxidation</b>	2006
<b>E11-F07D</b>	.. <b>Other N-containing groups</b>	
	Includes N-acylation. Used for specified nitrogen-containing groups. General references code as E11-F07.	2010
<b>E11-F08</b>	. <b>(Hydro) halogenation</b>	2002
<b>E11-F09</b>	. <b>Addition of Sulphur functions</b>	
	for example, sulphonation	2002
<b>E11-F10</b>	. <b>Addition of P / Si / B or other heteroatom (other than O, S, N and halogen)</b>	
	For example, phosphorylation, silylation, alkylation of boron. <i>See also N07-D11.</i>	2010
<b>E11-G</b>	<b>ELIMINATION/ CLEAVAGE REACTIONS – GENERAL OR UNCLASSIFIED</b>	
	Includes cracking.	
<b>E11-G01</b>	. <b>Decarboxylation; decarbonylation</b>	2002
	<i>Chain contraction previously coded under E11-B</i>	
<b>E11-G02</b>	. <b>Cracking; other C-C bond fission</b>	2002
	<i>Chain contraction previously coded under E11-B</i>	
<b>E11-G03</b>	. <b>Hydrolysis</b>	2002
<b>E11-G04</b>	. <b>De(hydro)halogenation</b>	2006
<b>E11-G05</b>	. <b>Dehydration</b>	
	Applied where dehydration results in a product formation, e.g. dehydration of ethanol fuel; or manufacture of ethylene by dehydration of ethanol.	2010
<b>E11-G06</b>	. <b>Dehydroxylation</b>	
	Removal of hydroxy / hydroxyl (OH) groups.	2010
<b>E11-G07</b>	. <b>Deamination</b>	
	Removal of amine / amino (NH <sub>2</sub> , NHR) groups.	2010
<b>E11-H</b>	<b>EXCHANGE REACTIONS – GENERAL OR UNCLASSIFIED</b>	
<b>E11-H01</b>	. <b>Transesterification; ether / acetal exchange</b>	2002
<b>E11-H02</b>	. <b>Olefin Metathesis</b>	2006
<b>E11-J</b>	<b>ISOMERISATION, RACEMISATION</b>	
<b>E11-J01</b>	. <b>Isomerisation</b>	2006
<b>E11-J02</b>	. <b>Racemisation</b>	2006
<b>E11-K</b>	<b>GENERAL AND OTHER CHEMICAL PROCESSES</b>	
<b>E11-K01</b>	. <b>Production by combinatorial chemistry</b>	
	Applied in addition to other (structural) codes	2002

E11-K02	. <b>Apparatus for combinatorial chemistry</b> Applied in addition to other (structural) codes	2002
E11-K03	. <b>Green Chemistry</b> Applied to a chemical process designed to minimize the production of by-products. The code is only applied to patents claiming a production process where a stated advantage is that the process is environmentally 'friendly' or that the process produces fewer by-products. May be used in conjunction with E11-W. <i>See also N07-K01.</i>	2010
<b>PHYSICAL</b>		
E11-L	<b>RESOLUTION</b>	
E11-M	<b>FERMENTATION; ENZYME CATALYSIS</b>	
E11-N	<b>ELECTROCHEMICAL, ELECTRIC DISCHARGE</b>	
E11-P	<b>IRRADIATION, PHOTOGRAPHIC</b>	
E11-Q	<b>SEPARATION, REMOVAL, ANALYSIS - GENERAL</b> The following are not in order of priority.	
E11-Q01	<b>Separation, extraction, recovery, purification</b>	1986
E11-Q01A	. Purification by chemical means	2005
E11-Q01B	. Purification by physical means	2005
E11-Q01C	. <b>Extraction from natural materials</b> Covers chemical compounds extracted from a plant or organism or any other natural materials. Does not include standard lab extraction methods.	2010
E11-Q02	<b>Removal, effluent treatment</b>	1986
E11-Q02A	. Engine exhaust treatment	2005
E11-Q02B	. Industrial effluent treatment	2005
E11-Q02C	. Other	2005
E11-Q03	<b>Analysis, or detection - general</b>	1986
E11-Q03A	. Mass spectroscopy	1986
E11-Q03B	. NMR, esr spectroscopy	1986
E11-Q03C	. Radio, IR, vis, UV, Raman spectroscopy	1986

E11-Q03D	. X-ray, gamma-ray	1986
E11-Q03E	. Chromatography	1986
E11-Q03F	. Electrophoresis, electrostatics	1986
E11-Q03G	. Microscopy light, electron	1986
E11-Q03H	. Sound, ultrasonics	1986
E11-Q03J	. Polarography, potentiometry, electrolysis	1986
E11-Q03K	. Radioactivity, isotope	1986
E11-Q03L	. Colour change (visual)	1986
E11-Q03M	. Magnetism	1986
E11-Q03N	. Thermal means	1986
E11-R	<b>TREATMENT, DYEING, OTHER PHYSICAL PROCESSES - GENERAL</b> The following are not in order of priority.	
E11-R01	<b>Treatment during preparation, manufacture:</b>	1986
E11-R01A	. by addition of compound	1986
E11-R01B	. by physical process, crystallisation	1986
E11-R02	<b>Treatment after preparation, manufacture:</b>	1986
E11-R02A	. by grinding, particle size reduction	1986
E11-R02B	. <b>By solvent treatment, crystallisation, particle size increase</b> For crystallisation prior to 198601 search E11-Q.	1986
E11-R02C	. other	1986
E11-R03	<b>Dyeing</b>	1986
E11-R04	<b>Other physical process</b>	1986
E11-S	<b>STORAGE</b>	1986
E11-T	<b>VAT RESIDUE, WASTE FROM PRODUCTION</b> <i>Retired.</i>	1994-2009
E11-U	<b>SUPPRESSION</b>	2005
E11-V	<b>ABSENT</b>	2005



**E11-W****ENVIRONMENTALLY FRIENDLY INVENTIONS (COMPOSITIONS / APPLICATIONS)**

Only applied in combination with other chemical manual codes. Reference must be made in the published claims to 'environment(al)' or 'carbon-friendly' benefits or improvement(s) of the novelty. May be used in conjunction with E11-K03. See also N06-G.

2010

**E21-E27 ORGANIC DYES AND PIGMENTS(E2)**

This section contains organic compounds used as colouring matters, fluorescent brighteners, and their immediate precursors. Each chromophore present is coded and, where necessary, more than one code is applied.

**E21 AZO DYES**

Includes formazan dyes which are treated as mono-azo dyes.

<b>E21</b>	<b>General</b>
<b>E21-A</b>	<b>WATER-SOLUBLE, CATIONIC</b>
<b>E21-A</b>	<b>General</b>
<b>E21-A01</b>	<b>monoazo-carbocyclic diazo, carbocyclic coupler</b>
<b>E21-A02</b>	<b>as above, but other coupler</b>
<b>E21-A03</b>	<b>monoazo-heterocyclic diazo, carbocyclic coupler</b>
<b>E21-A04</b>	<b>as above, but other coupler</b>
<b>E21-A05</b>	<b>monoazo-cyclic onium type</b> This code has precedence over codes E21-A01 to E21-A04.
<b>E21-A06</b>	<b>disazo</b>
<b>E21-A07</b>	<b>tris- and polyazo</b>
<b>E21-B</b>	<b>WATER-SOLUBLE, NOT CATIONIC</b>
<b>E21-B</b>	<b>General</b>
<b>E21-B01</b>	<b>metallised-1:1 Cr or Co complex</b>
<b>E21-B02</b>	<b>metallised-1:2 Cr or Co complex containing -SO<sub>3</sub>-</b>
<b>E21-B03</b>	<b>metallised-1:2 Cr or Co complex not containing -SO<sub>3</sub>-</b>
<b>E21-B04</b>	<b>Other complex (Cu, Ni etc.)</b>
<b>E21-B05</b>	<b>unmetallised-monoazo</b>
<b>E21-B06</b>	<b>unmetallised-disazo</b>
<b>E21-B07</b>	<b>unmetallised-tris- and polyazo</b>

E21-C	<b>WATER INSOLUBLE</b> For monoazo, code diazo- and coupling-components (according to point of attachment of the azo group). This section includes metal sulphonate pigments.
E21-C	<b>Water-insoluble azo - general</b>
E21-C01	. <b>Water-insoluble, monoazo - general</b>
E21-C10	.. <b>monoazo, diazo component - aniline derivative</b>
E21-C11	.. <b>monoazo, diazo component - other carbocyclic systems</b>
E21-C12	.. <b>monoazo, diazo component - aminothiazole type</b> Includes benzthiazoles.
E21-C13	.. <b>monoazo, diazo component - other heterocyclic system</b>
E21-C14	.. <b>monoazo, diazo component - two or more of above types</b>
E21-C15	.. <b>monoazo, coupling component - benzene derivative</b>
E21-C16	.. <b>monoazo, coupling component - other carbocyclic system</b>
E21-C17	.. <b>monoazo, coupling component - heterocyclic</b>
E21-C18	.. <b>monoazo, coupling component - miscellaneous</b>
E21-C19	.. <b>monoazo, coupling component - two or more of above types</b>
E21-C02	. <b>Water-insoluble, disazo - general</b> For codes E21-C20 to E21-C23, the definitions of the letters A, D, E, M, and Z are as follows:- A = diazocomponent (amine) D = tetraazocomponent (diamine) E = coupling (end) component M = middle component (amine and coupling) Z = double coupling component
E21-C20	.. <b>disazo-type A → M → E</b>
E21-C21	.. <b>disazo-type D → (E)2</b>
E21-C22	.. <b>disazo-type A → Z ← A</b>
E21-C23	.. <b>Disazo-other</b> Includes condensed.
E21-C03	. <b>Water-insoluble tris(poly)azo</b>

E21-D	<b>REACTIVE</b> <b>Not</b> coded in E21-A/B/C. Use all relevant codes between E21-D01 and E21-D09 as appropriate.
E21-D	<b>General</b>
E21-D01	<b>Reactive system - triazine type</b>
E21-D02	<b>Reactive system - other heterocyclic</b>
E21-D03	<b>Reactive system - labile group linked by SO<sub>2</sub> (NR)</b>
E21-D04	<b>Reactive system - other systems</b>
E21-D05	<b>Chromophore - metallised monoazo Cu, Ni complex</b>
E21-D06	<b>Chromophore - metallised dis- and polyazo Cu, Ni complex</b>
E21-D07	<b>Chromophore - other metal complex</b>
E21-D08	<b>Chromophore - unmetallised monoazo</b>
E21-D09	<b>Chromophore - unmetallised dis- and polyazo</b>
E21-E	<b>DIAZONIUM COMPOUND</b>
E21-E	<b>General</b>

**E22 ANTHRAQUINONE DYES**

Includes anthraquinone intermediates (which are also coded in section (E1)), compounds containing a condensed anthraquinone ring system, and extended quinones of more than two fused rings.

<b>E22</b>	<b>General</b>
<b>E22-A</b>	<b>WATER-SOLUBLE, CATIONIC</b>
<b>E22-A</b>	<b>General</b>
<b>E22-B</b>	<b>WATER-SOLUBLE, NOT CATIONIC</b>
<b>E22-B</b>	<b>General</b>
<b>E22-B01</b>	<b>1-2 substituents</b>
<b>E22-B02</b>	<b>3 substituents</b>
<b>E22-B03</b>	<b>4 substituents</b>
<b>E22-B04</b>	<b>5 substituents</b>
<b>E22-B05</b>	<b>6-8 substituents</b>
<b>E22-C</b>	<b>WATER-INSOLUBLE</b>
<b>E22-C</b>	<b>General</b>
<b>E22-C01</b>	<b>0-2 substituents</b>
<b>E22-C02</b>	<b>3 substituents</b>
<b>E22-C03</b>	<b>4 substituents</b>
<b>E22-C04</b>	<b>5 substituents</b>
<b>E22-C05</b>	<b>6-8 substituents</b>
<b>E22-D</b>	<b>REACTIVE</b> <b>Not coded in E22-A/B/C.</b>
<b>E22-D</b>	<b>General</b>
<b>E22-D01</b>	<b>1-2 substituents</b>
<b>E22-D02</b>	<b>3 substituents</b>
<b>E22-D03</b>	<b>4 substituents</b>
<b>E22-D04</b>	<b>5 substituents</b>
<b>E22-D05</b>	<b>6-8 substituents</b>
<b>E22-E</b>	<b>POLYCYCLIC OTHER THAN ANTHRAQUINONE</b>
<b>E22-E</b>	<b>General</b>
<b>E22-E01</b>	<b>3-4 rings</b> Includes derivatives of anthraquinone function.
<b>E22-E02</b>	<b>5-7 rings</b>
<b>E22-E03</b>	<b>8 or more rings</b>

**E23 PHTHALOCYANINE (MACROCYCLIC) DYES**

<b>E23</b>	<b>General</b>
<b>E23-A</b>	<b>WATER-SOLUBLE</b>
<b>E23-A</b>	<b>General</b>
<b>E23-A01</b>	<b>reactive</b>
<b>E23-A02</b>	<b>non-reactive</b>

<b>E23-B</b>	<b>WATER-INSOLUBLE</b>
<b>E23-B</b>	<b>General</b>

**E24 SPECIAL CLASSES OF DYES**

<b>E24</b>	<b>General</b>
<b>E24-A</b>	<b>FLUORESCENT BRIGHTENERS AND DYES</b>
<b>E24-A</b>	<b>General</b>
<b>E24-A01</b>	<b>stilbene type</b> 1970-2001 <i>Now coded as: E24-A04A (brighteners); E24-A05 (dyes)</i>
<b>E24-A02</b>	<b>coumarin or benzoxazole type</b> 1970-2001 <i>Now coded as: E24-A04B (brighteners); E24-A05 (dyes)</i>
<b>E24-A03</b>	<b>other type</b> 1970-2001 <i>Now coded as: E24-A04C (brighteners); E24-A05 (dyes)</i>
<b>E24-A04</b>	<b>Fluorescent Brighteners, general</b> 2002 <i>Previously coded under: E24-A</i>
<b>E24-A04A</b>	<b>. Stilbene type</b> 2002 <i>Previously coded under: E24-A01</i>
<b>E24-A04B</b>	<b>. Coumarin or benzoxazole type</b> 2002 <i>Previously coded under: E24-A02</i>
<b>E24-A04C</b>	<b>. Other type</b> 2002 <i>Previously coded under: E24-A03</i>
<b>E24-A05</b>	<b>Fluorescent Dyes</b> 2002 <i>Previously coded under: E24-A:</i>
<b>E24-A06</b>	<b>Luminescent dyes-general</b> 2005
<b>E24-A06A</b>	<b>. Luminescent compounds containing metal</b> 2005
<b>E24-A06B</b>	<b>. Luminescent heterocyclics</b> 2005
<b>E24-A06C</b>	<b>. Other luminescent compounds</b> 2005

E24-B	<b>POLYMERISED AND POLYCONDENSED DYES, AND PRECURSORS</b>
E24-B	<b>General</b> Also code the monomer in section (E2)
E24-C	<b>MIXED CHROMOPHORES</b>
E24-C	<b>General</b> Also code constituent dye chromophores in their appropriate groups.
E24-D	<b>(NEAR) INFRA-RED DYES</b>
E24-D	<b>General</b> Also code chromophores in their appropriate groups.
	2002
E24-E	<b>UV ABSORBERS</b> Note: Only coded in E2 section when UV Absorber is coloured.
E24-E	<b>General</b> Also code chromophores in their appropriate groups.
	2002
E24-U	<b>NANOSTRUCTURES</b> Note: Defines the structure of the substrate, <u>not</u> the form of the dye or pigment.
E24-U	<b>Dye or pigment bound to nanostructure</b> The dye or pigment bound to the nanostructure may be coded separately.
	2010

## E25 GENERAL AND OTHER DYES

E25	<b>Dyes and pigments - general</b>
E25-A	<b>Nitro, nitroso</b>
E25-A	<b>General</b>
E25-B	<b>METHINE, STYRYL</b>
E25-B	<b>General</b>
E25-B01	<b>Methine dye used as electrophotographic charge transport agent</b>
	1994
	<i>Previous code(s): E25-B</i>
E25-B02	<b>Methine dye used in a silver halide photosensitive photographic composition</b> e.g. As photosensitiser or antihalation dye.
	1994
	<i>Previous code(s): E25-B</i>
E25-B03	<b>Other</b>
	1994
	<i>Previous code(s): E25-B</i>
E25-C	<b>AZAMETHINE</b> Includes =N-
E25-C	<b>General</b>
E25-D	<b>TRI- AND DI-ARYLMETHANE</b>
E25-D	<b>GENERAL</b>
E25-E	<b>OTHER TYPES - GENERAL</b> In order of priority: E25-E01 > E25-E02 > E25-E03.
E25-E	<b>General</b>
E25-E01	<b>ring(s) containing N</b>
	1986
E25-E02	<b>ring(s) containing O</b>
	1986
E25-E03	<b>other</b>
	1986
E25-F	<b>NATURAL DYE OF UNKNOWN STRUCTURE</b>
	1994
E25-F	<b>General</b>
	1994

## E26 DYE PRECURSORS EXCLUDING E21-E, E24-B

Includes coupling components, colour couplers, oxidation bases, leuco bases; and photo-, thermo-, piezo- or halochromic compounds. Compounds coded here should also receive appropriate section (E1) codes.

E26	General	
E26-A	COUPLERS	
E26-A	General	1975
E26-A01	azo	1986
E26-A02	condensation: photographic	1986
E26-A03	condensation: other; oxidation; other	1986
E26-B	LACTONES, LACTAMS, SULTONES, SULTAMS, PHOTOCHROMICS, SPIROPYRANS	1975
E26-B	General	
E26-C	OTHER DYE PRECURSORS	1975
E26-C	General	

## E27 DYE FORMULATIONS; MORPHOLOGY

Inventions relating to formulations or specific forms/modifications of known dyes and pigments are coded here from 2002. Includes processes where modifying or treating the chromophore is key to the invention. Where appropriate, codes for the individual chromophores are additionally applied

E27-A	FORMULATIONS	
E27-A	General	2002
E27-A01	Pigment formulation	2002
E27-A02	Dyestuff formulation	2002
E27-B	MORPHOLOGY Indexed where specific shape or form, or process for treating chromophore is claimed or key to the invention.	2002
E27-B	General	2002
E27-B01	Pigments	2002
E27-B01A	. Pigments morphology (nano-form) Applied where specific shape or form of pigment is specified as a nano-form.	2010
E27-B02	Dyestuffs	2002
E27-B02A	. Dyes morphology (nano-form) Applied where specific shape or form of dye is specified as a nano-form.	2010
E27-B03	Others	2002
E27-B03A	. Other chromophores morphology (nano-form) Applied where specific shape or form of non-dye, non-pigment chromophore is specified as a nano-form.	2010

**E31-E35 INORGANIC CHEMISTRY (E3)**

In general, the overall priority is:-

E35 > 34 > 33 > 32 > 31

However, the following rules should also be noted.

1. Code E31-E (peroxide) has priority over all other section (E3) codes.
2. Code E32-B (cyanogen and derivatives) has priority over E33, 34 and E35.
3. Within each of E32, E33, E34 and E35 all appropriate codes are assigned.
4. Within E31, a compound is given the last code letter, while within the subdivisions of these the first appropriate code is applied.

E31-E > E31-Q > E31-P >—> E31-K > E31-J > —> E31-A

while E31-P06B > E31-P06C

and E31-Q02 > E31-Q04

5. E31 has priority over E32, E33, E34, E35 for ammonium, cyanogen and metal derivatives of:- hydrides (metals only) (E31-A+) oxyacids of halogens (E31-C) hyposulphite, polythionate/ite (E31-F+) thiosulphate (E31-F+) compounds of Se, Te (E31-G) amide, azide, imide (E31-H+) nitride, nitrite, nitrosyl (E31-H+) oxyacids of P, phosphide (E31-K+) compounds of As (E31-L) and Sb (E31-M) carbides (E31-N+) compounds of Si (E31-P+) compounds of B (E31-Q+)
6. E31 has priority over E33, E34 for sulphides of:- alkali metal, Mg, Ca, Sr, Ba (E31-F+).

**Note**

1. Specific isotopes and radioactive inorganic compounds of elements not naturally radioactive so are coded in section (E3) with the addition of code E05-R

**E31 NON-METALLIC ELEMENTS, METALLOIDS AND COMPOUNDS**

E31	General	
<b>E31-A</b>	<b>HYDROGEN, METAL HYDRIDE, WATER</b>	
	<b>General</b>	
	Excludes H of acids.	
<b>E31-A01</b>	<b>H<sub>2</sub> + CO</b>	1986
<b>E31-A02</b>	<b>H<sub>2</sub> production, storage</b>	1986
<b>E31-A02A</b>	. <b>By electrical method</b>	2005
<b>E31-A02B</b>	. <b>Storage</b>	2005
<b>E31-A02C</b>	. <b>Other</b>	2005
<b>E31-A03</b>	<b>H<sub>2</sub> use, detection, removal</b>	1986
<b>E31-A04</b>	<b>metal hydride</b>	1986
<b>E31-A05</b>	<b>water, other</b>	1986
<b>E31-B</b>	<b>HALOGEN (X), X ACID AND HALIDE (HAL) - GENERAL</b>	
<b>E31-B01</b>	<b>Electrical production of X</b>	
	Includes electrolyte and apparatus.	1975
<b>E31-B02</b>	<b>production of X by other methods, production of HX or inter-X compound</b>	1975
<b>E31-B02A</b>	. <b>F, Br, I element production</b>	2005
<b>E31-B02B</b>	. <b>Cl element production</b>	2005
<b>E31-B02C</b>	. <b>F, Br, I compound production</b>	2005
<b>E31-B02D</b>	. <b>Cl compound production</b>	2005
<b>E31-B03</b>	<b>use of X or compound containing X - general</b>	
	For oxy X compound see E31-C.	1975
<b>E31-B03A</b>	. <b>F, Br, I element</b>	1986
<b>E31-B03B</b>	. <b>Cl element</b>	1986
<b>E31-B03C</b>	. <b>F, Br, I compound</b>	1986
<b>E31-B03D</b>	. <b>Cl compound</b>	1986

<b>E31-C</b>	<b>OXIDE OR OXYACID OF X, SALTS</b>		<b>E31-G</b>	<b>SE OR TE OR COMPOUND THEREOF</b>	
<b>E31-D</b>	<b>OXYGEN, OZONE; OXIDE - GENERAL</b>		<b>E31-H</b>	<b>NITROGEN, OR COMPOUND THEREOF - GENERAL</b>	
<b>E31-D01</b>	<b>O2 production, storage</b>	1986	<b>E31-H01</b>	<b>removal of nitrogen oxides from waste gases etc. catalytically</b>	1977
<b>E31-D02</b>	<b>O2 use, detection, removal</b>	1986	<b>E31-H02</b>	<b>other methods for removing N oxides from waste gases etc.</b>	1977
<b>E31-D03</b>	<b>O3 ; activated oxygen etc.</b>	1986	<b>E31-H03</b>	<b>elemental N; compound containing halogen and/or sulphur</b>	1977
<b>E31-D04</b>	<b>oxide</b>	1986	<b>E31-H04</b>	<b>production of other N compound</b>	1977
<b>E31-D05</b>	<b>Hydroxide</b>	2005	<b>E31-H05</b>	<b>use of other N compound</b>	1977
<b>E31-E</b>	<b>PEROXIDE, PERACID; SALTS THEREOF</b> N.B. has priority over all other section (E3) codes.		<b>E31-J</b>	<b>NOBLE GAS (OR COMPOUND)</b>	
<b>E31-E01</b>	<b>Hydrogen peroxide</b>	2005	<b>E31-K</b>	<b>PHOSPHORUS, OR COMPOUND THEREOF - GENERAL</b>	
<b>E31-E02</b>	<b>Percarbonate</b>	2005	<b>E31-K01</b>	<b>catalyst containing P (or compound)</b>	1975
<b>E31-E03</b>	<b>Persulfate</b>	2005	<b>E31-K02</b>	<b>H3 PO4 (optionally some polyphosphoric acid) production</b>	1975
<b>E31-E04</b>	<b>Perborate</b>	2005	<b>E31-K03</b>	<b>orthophosphate (optionally some polyphosphate) - production</b>	1975
<b>E31-E05</b>	<b>Other inorganic peroxide</b>	2005	<b>E31-K04</b>	<b>P; other P compound - production</b> e.g. Polyphosphate.	1975
<b>E31-F</b>	<b>SULPHUR; COMPOUND THEREOF - GENERAL</b>		<b>E31-K05</b>	<b>Orthophosphate use - general</b> Includes acid and P hetero poly acid.	1975
<b>E31-F01</b>	<b>Removal of S compound(s) from wastes etc., optionally with recovery of S values (general)</b> Includes catalyst regeneration. One of the E11-Q02 codes must be applied as well whenever this code or one of its sub-divisions (E31-F01A – E31-F01E) is applied. Always try to apply one of the more specific codes in preference to this one.	1975	<b>E31-K05A</b>	<b>. orthophosphoric acid</b>	1986
<b>E31-F01A</b>	<b>. removal of S oxide</b>	1986	<b>E31-K05B</b>	<b>. counter ion is metal from Section 35</b>	1986
<b>E31-F01B</b>	<b>. removal of S hydride</b>	1986	<b>E31-K05C</b>	<b>. counter ion is metal from Section 34</b>	1986
<b>E31-F01C</b>	<b>. removal of other S compound</b>	1986	<b>E31-K05D</b>	<b>. counter ion is metal from Section 33</b>	1986
<b>E31-F02</b>	<b>production of S, H2S (or salts), polysulphide</b> Excludes E31-F01.	1975	<b>E31-K05E</b>	<b>. counter ion is ion from Section 32, 31 or is organic</b>	1986
<b>E31-F03</b>	<b>production of other S compound</b>	1975	<b>E31-K06</b>	<b>Polyphosphate, use</b> Includes meta.	1975
<b>E31-F04</b>	<b>Use of elemental sulfur, (poly)sulfide or oxide of S</b> Includes complex oxides.	1975	<b>E31-K07</b>	<b>P; other P compound, use</b> e.g. P oxide.	1975
<b>E31-F05</b>	<b>Use of other S compound</b> Includes S oxyacid.	1975	<b>E31-L</b>	<b>ARSENIC, OR COMPOUND THEREOF</b>	
			<b>E31-M</b>	<b>ANTIMONY COMPOUND</b>	

E31-N	CARBON, OR COMPOUND THEREOF - GENERAL		E31-P	SILICON, OR COMPOUND THEREOF - GENERAL	
E31-N01	C fibre production	1975	E31-P01	production and/or modification of silica or hydrate	1975
E31-N02	C modification Includes C fibre graphitisation.	1975	E31-P02	mixture of silica and alumina (may be chemically combined) - general	1975
E31-N03	C production Includes diamonds.	1975	E31-P02A	. zeolite production	1986
E31-N03A	. Diamond, cubic C	2005	E31-P02B	. zeolite use	1986
E31-N03B	. Graphite (other) pyrolytic Not C fiber graphitization- E31-N02	2005	E31-P02C	. non-zeolite production	1986
E31-N03C	. Active	2005	E31-P02D	. non-zeolite use	1986
E31-N03D	. Inert	2005	E31-P03	use of silica, other than mixture with alumina	1975
E31-N04	use of C - general e.g. As purifier, catalyst.	1975	E31-P04	fluorosilicate; silicate mineral (other than +Al)	1975
E31-N04A	. diamond, cubic C	1986	E31-P05	other silicate - general	1975
E31-N04B	. graphite, (other) pyrolytic	1986	E31-P05A	. non alkali(ne earth) metal present	1986
E31-N04C	. other form of C, active	1986	E31-P05B	. alkaline earth metal present	1986
E31-N04D	. other form of C, inert	1986	E31-P05C	. alkali metal present	1986
E31-N05	compound of C - general See E31-A for CO with H2 mixtures.	1975	E31-P05D	. other silicate	1986
E31-N05A	. metal carbide	1986	E31-P06	Silicon; other Si compound - general	1975
E31-N05B	. (thio) CO, carbonyl compound For metal carbonyls see code for metal.	1986	E31-P06A	. Si element	1986
E31-N05B1	.. Carbon monoxide	2005	E31-P06B	. Si halide, hydride	1986
E31-N05B2	.. other	2005	E31-P06C	. Si carbide	1986
E31-N05C	. CO2 Includes carbonic acid.	1986	E31-P06D	. Si nitride	1986
E31-N05D	. other C compound	1986	E31-P06E	. other Si compound	1986



E31-Q	BORON; COMPOUND THEREOF - GENERAL	
E31-Q01	B element	1986
E31-Q02	B halide, hydride	1986
E31-Q03	B carbide, nitride, metal boride	1986
E31-Q04	B oxide	1986
E31-Q05	B acid	1986
E31-Q06	alkali metal borate Borate: from B-O acid.	1986
E31-Q07	other borate Borate: from B-O acid.	1986
E31-Q08	other B compound Borate: from B-O acid. BF <sub>4</sub> <sup>-</sup> is coded E31-Q02.	1986
E31-U	INORGANIC NANOSTRUCTURES Used in conjunction with E3* codes	2005
E31-U01	Nanoparticles	2006
E31-U02	Nanotubes, nanorods, nanowhiskers	2006
E31-U03	Nanofilms	2006

## E32 AMMONIA, CYANOGEN AND COMPOUNDS

E32	General	
E32-A	AMMONIA, OR AMMONIUM COMPOUND - GENERAL	
E32-A01	NH <sub>3</sub> production	1986
E32-A02	NH <sub>3</sub> use	1986
E32-A03	NH <sub>4</sub> <sup>+</sup> compound production	1986
E32-A04	NH <sub>4</sub> <sup>+</sup> compound use	1986
E32-A05	other compound	1986
E32-B	CYANOGEN AND DERIVATIVES Includes all metal cyanides, (thio)cyanates and cyanamides. N.B. has priority over E33, 34, 35.	

## E33 ALKALI METAL COMPOUNDS

E33	General	
E33-A	OXIDE OR HYDROXIDE OF NA/K - GENERAL	
E33-A01	Na/K OH production by electrical means	1986
E33-A02	Na/K OH production by other means	1986
E33-A03	Na/K OH use	1986
E33-A04	Na/K oxide	1986
E33-B	HALIDE OF NA/K	
E33-C	SULPHATE OR SULPHITE OF NA/K INCLUDES HYDROGEN SULPHATE/ITE.	
E33-D	CARBONATE OF NA/K INCLUDES HYDROGEN CARBONATE.	
E33-E	NITRATE OF NA/K	
E33-F	OTHER COMPOUND OF NA/K	
E33-G	LI COMPOUND	
E33-H	RB OR CS COMPOUND	
E33-S	GENERAL NA/K SALT <i>Previous code(s) : E33-A</i>	2006

## E34 COMPOUNDS OF Be, Mg, Al, Ca, Sr, Ba, Ra, Th, RARE EARTHS

E34	General	
E34-A	BE COMPOUND	
E34-B	Mg COMPOUND - GENERAL	
E34-B01	Mg oxide	1986
E34-B02	Mg hydroxide, carbonate, basic compound	1986
E34-B03	Mg halide, sulphate	1986
E34-B04	other Mg compound For sulphide (derivative) code E31-F+.	1986
E34-C	AL COMPOUND - GENERAL	
E34-C01	Al (hydr)oxide production	1975
E34-C02	Al (hydr)oxide use For alumina/silica see E31-P02.	1975
E34-C03	others	1975
E34-D	CA, SR, OR BA COMPOUND - GENERAL	
E34-D01	Ca (hydr)oxide	1975
E34-D02	Ca sulphate, halide Includes basic.	1975
E34-D03	others For sulphide (derivative) code E31-F+.	1975
E34-D03A	. Calcium carbonate	2005
E34-D03B	. Other calcium compounds	2005
E34-D03C	. Strontium compounds	2005
E34-D03D	. Barium compounds	2005
E34-E	SC, Y, LANTHANOID, RA, OR TH COMPOUND	
E34-E01	Sc, Y, La	2006
E34-E02	Lanthanides general	2006
E34-E02A	. Cerium	2006
E34-E02B	. Other Lanthanide compounds	2006
E34-E03	Ra, Th	2006

## E35 COMPOUNDS OF OTHER METALS

E35	GENERAL	
E35-A	Cu compound	
E35-B	Ag, Au compound	
E35-C	Zn compound - general	
E35-C01	. Zinc (hydr)oxide production	2006
E35-C02	. Zinc (hydr)oxide use	2006
E35-C03	. Zinc halide, sulfate	2006
E35-C04	. Other Zn compound	2006
E35-D	Cd compound	
E35-E	Hg compound	
E35-F	Ga, In, Tl compound	
E35-G	Ge compound	
E35-H	Sn compound	
E35-J	Pb compound	
E35-K	Ti compound - general	
E35-K01	. TiO2 production	1986
E35-K02	. TiO2 use	1986
E35-K03	. Ti halide, sulphate	1986
E35-K04	. other Ti compound	1986
E35-L	Zr, Hf compound	
E35-M	Bi compound	
E35-N	V, Nb, Ta compound	
E35-P	Cr compound	
E35-Q	Mo, W compound	
E35-R	Po, U, trans-U compound	
E35-S	Mn compound	
E35-T	Re compound	
E35-U	Fe compound - general	
E35-U01	. Fe oxide production Includes ferrite.	1986
E35-U02	. Fe oxide use Includes ferrite.	1986
E35-U03	. Fe hydroxide, mixed oxide-hydroxide	1986
E35-U04	. Fe halide, sulphate	1986
E35-U05	. other Fe compound	1986

E35-V	Co compound
E35-W	Ni compound
E35-X	Ru, Rh, Pd, Os, Ir, Pt compound
E35-Y	Other metal compound (Tc, At, Fr, Ac, Pa)



## F: TEXTILES, PAPER, CELLULOSE

F01	Natural/Synthetic Threads/Fibres
F02	Fabrics and their Production
F03	Treatment of Fabric Products
F04	Textile Applications
F05	Paper and Wood



## F: TEXTILES, PAPER, CELLULOSE

Code commenced 197001.

### F01 NATURAL/SYNTHETIC THREADS/FIBRES

F01-A	MECHANICAL TREATMENT OF NATURAL MATERIAL TO OBTAIN FIBRES OR FILAMENTS
F01-A01	Of animal fibres Including cocoon handling and unwinding.
F01-A02	Of vegetable fibres Including scutching, ginning.
F01-A03	Of mineral fibres Prior to 1971 no specific code was available. 1971
F01-B	CHEMICAL TREATMENT OF NATURAL MATERIAL TO OBTAIN FILAMENTS OR FIBRES FOR SPINNING
F01-B01	Of animal fibres Including carbonising rags to recover fibres.
F01-B02	Of vegetable fibres Including retting.
F01-C	MECHANICAL METHODS AND EQUIPMENT IN MANUFACTURE OF SYNTHETIC FILAMENTS, THREADS, FIBRES, BRISTLES OR RIBBONS
F01-C01	Equipment Including spinnerettes, die plates, manifolds and distributors, pumps.
F01-C02	Dry spinning (evaporative) 1970-1993
F01-C03	Melt spinning 1970-1993
F01-C04	Wet spinning (coagulative) 1970-1993
F01-C05	Fibrillation
F01-C06	Drawing Including draw texturing (with F01-H04+). Prior to 1971 see F01-C. 1971
F01-C07	Other fibre production (other than by spinning or fibrillation) Including emulsion spinning, centrifugal spinning, flash extrusion of plexifilaments and glass fibre production. Prior to 1971 see F01-C. 1972
F01-C07A	. Melt blowing 1994 Previous code(s): F01-C07

F01-C07B	. Flash extrusion Previous code(s): F01-C07 1994
F01-C07C	. Fibrid production Previous code(s): F01-C07 1994
F01-C07D	. Synthetic pulp production Previous code(s): F01-C07 1994
F01-C07E	. Glass fibre production Previous code(s): F01-C07 1994
F01-C08	Spinning general Previous code(s): F01-C+ 1994
F01-C08A	. Dry spinning Previous code(s): F01-C02 1994
F01-C08B	. Melt spinning Previous code(s): F01-C03 1994
F01-C08B1	.. High speed Previous code(s): F01-C03 1994
F01-C08C	. Wet spinning (coagulative) Includes Dry-Wet spinning. Previous code(s): F01-C04 1994
F01-C	Others e.g. cooling, quenching, freezing, annealing of extruded filaments.
F01-D	CHEMICAL FEATURES IN MANUFACTURE OF SYNTHETIC FILAMENTS, THREADS, FIBRES, BRISTLES OR RIBBONS Including polymer production or chemical modification; chemical structure of polymers and additives used in bulk of polymer.
F01-D01	Cellulose ester fibres e.g. cellulose (di-,tri-) acetate.
F01-D02	Acrylic and modacrylic fibres i.e. acrylonitrile or methacrylonitrile (co)polymers. For acrylic ester polymers see F01-D08.
F01-D03	Polyamide fibres, nylons Including nylon 6 (poly- caproamide); nylon 6:6; aromatic polyamides (aramids); polyesteramides (with F01-D04).
F01-D03A	. Wholly aliphatic polyamides Previous code(s): F01-D03 1994
F01-D03B	. Aromatic polyamides Includes aromatic polyamides containing aliphatic groups. Previous code(s): F01-D03 1994

F01-D04	<b>Polyester, polycarbonate fibres</b> Including polybutylene terephthalate (PBT); linear polyesters; polyesteramides (with F01-D03); polyetheresters (with F01-D10). For polyethylene terephthalate see F01-D04A.
F01-D04A	. <b>Polyethylene terephthalate (PET)</b> <i>Previous code(s): F01-D04</i> 1994
F01-D05	<b>Polyolefin fibres</b> Including polyethylene, polypropylene.
F01-D06	<b>Regenerated cellulose, rayon, polynosic fibres</b>
F01-D06A	. <b>By Viscose process</b> <i>Previous code(s): F01-D06</i> 1994
F01-D06B	. <b>By cuprammonium process</b> <i>Previous code(s): F1-D06</i> 1994
F01-D06C	. <b>By other specific process</b> <i>Previous code(s): F01-D06</i> 1994
F01-D07	<b>Polyurethane fibres</b> e.g. spandex, Lycra ®
F01-D08	<b>Vinyl fibres</b> Including polyvinyl chloride (PVC), polyvinyl alcohol; excluding fluorine containing resins for which see F01-D10.
F01-D09	<b>Inorganic and metallic; asbestos</b>
F01-D09A	. <b>Carbon; graphite fibres</b> To be searched for the production of these fibres. 1971
F01-D09A1	.. <b>Derived from pitch</b> <i>Previous code(s): F01-D09A</i> 1994
F01-D09A2	.. <b>Derived from polyacrylonitrile (co)polymers</b> 1994
F01-D09A3	.. <b>Derived from other specific precursor(s)</b> <i>Previous code(s): F01-D09A</i> 1994
F01-D09B	. <b>Glass fibres</b> Prior to 1970 see F01-D09 1971
F01-D10	<b>Other fibres</b> Including fluorocarbon, phenoplast, proteinaceous.
F01-D	<b>Chemical features in general</b> e.g. additions to spinning solutions or melts.

F01-E	<b>PHYSICAL CHARACTERISTICS OF FIBRES</b>
F01-E01	<b>Conjugate, general</b> Including sea-island, side-by-side, sheath-core.
F01-E01A	. <b>Crimped conjugate</b> Prior to 1970 see F01-E01. 1972
F01-E02	<b>Non-circular, tapered</b> Including trilobal, lobed, thick and thin (variable denier) and plexifilaments.
F01-E03	<b>Hollow</b>
F01-E04	<b>Textured</b> Excluding F01-E01A; e.g. crimped, bulked.
F01-E05	<b>Monofilament</b> <i>Previous code(s): F01-E</i> 1994
F01-E06	<b>Microdenier yarns</b> <i>Previous code(s): F01-E</i> 1994
F01-E07	<b>Mixed filament yarns</b> Core-sheath yarns. 1994 <i>Previous code(s): F01-E</i>
F01-E08	<b>Variable denier yarns</b> <i>Previous code(s): F01-E</i> 1994
F01-E09	<b>Staple yarn/fibres</b> <i>Previous code(s): F01-E</i> 1994
F01-E09A	. <b>Fibrefill (batts, fibreballs, clusters)</b> <i>Previous code(s): F01-E</i> 1994
F01-E	<b>Others</b> Including slub yarn, knop yarn, nub yarn, sewing threads (with F02-F01). For spandex see F01-D07.
F01-F	<b>PRELIMINARY TREATMENT OF FIBRES</b> e.g. for spinning.
F01-F01	<b>Carding, combing, hackling</b> Prior to 1971 see F01-F. 1971
F01-F02	<b>Drafting, sliver drawing</b> Prior to 1971 see F01-F. 1971
F01-F03	<b>Opening, bale breaking</b> Prior to 1972 see F01-F. 1972
F01-F04	<b>Feeding of slivers</b> <i>Previous code(s): F01-F</i> 1994
F01-F	<b>Other preliminary treatment</b> e.g. blending, stapling.



<b>F01-G</b>	<b>SPINNING PROCESSES AND EQUIPMENT</b>		<b>F01-H04</b>	<b>Crimping, curling, texturing, bulking</b>	
<b>F01-G00G</b>	<b>General spinning and equipment</b> Indexed for generic and unspecified cases.	1994	<b>F01-H04A</b>	. <b>Stuffer-box crimping</b>	
	<i>Previous code(s): F01-G</i>		<b>F01-H04B</b>	. <b>False twisting</b>	
<b>F01-G01</b>	<b>Ring spinning</b>		<b>F01-H04C</b>	. <b>Other crimping or curling</b> e.g. knit-deknit (with F02-B03+); gear wheel processes.	
<b>F01-G02</b>	<b>Ringless spinning</b> e.g. flyer, cap, mule.		<b>F01-H04C1</b>	.. <b>Yarns textured by drawing only</b>	1994
<b>F01-G03</b>	<b>Converter processing</b>			<i>Previous code(s): F01-H04C</i>	
<b>F01-G04</b>	<b>Automated spinning systems</b>		<b>F01-H04C2</b>	.. <b>Jet crimping</b>	1994
<b>F01-G05</b>	<b>Open-end spinning, break spinning</b> Prior to 1972 see F01-G.	1972		<i>Previous code(s): F01-H04C</i>	
<b>F01-G</b>	<b>Others</b> Including electrostatic.		<b>F01-H05</b>	<b>Heat treatment, setting, conditioning, shrinking, relaxing, annealing</b> Including crimp development with heating (with F01-H04+).	
<b>F01-H</b>	<b>MECHANICAL FINISHING OF FIBRES, FILAMENTS, THREADS, YARNS OR ROPES</b>		<b>F01-H06</b>	<b>Finishing or dressing of fibres, general</b> Including lubrication, spin finishes.	
<b>F01-H01</b>	<b>Twisting, false twisting, plying, cabling, doubling, stranding</b> Including in production of ropes and cables.		<b>F01-H06A</b>	. <b>Sizing of fibres</b> Prior to 1972 see F01-H06.	1972
<b>F01-H02</b>	<b>Entangling, intermingling, interlacing, differential turbulence and other 'zero twist' processes</b> e.g. air jet.		<b>F01-H06B</b>	. <b>Increasing adhesion of fibres to bulk materials</b> e.g. resins, concrete. Prior to 1986 see F01-H06 in conjunction with F03-D.	1986
<b>F01-H03</b>	<b>Winding, reeling, packaging</b>		<b>F01-H07</b>	<b>Thread guides</b>	1994
<b>F01-H03A</b>	. <b>Bobbins, sleeves, tubes, cops, cartons</b> Prior to 1971 see F01-H03.	1971		<i>Previous code(s): F01-H03</i>	
<b>F01-H03B</b>	. <b>Break detection, end joining, length metering</b> e.g. knotting, splicing. Prior to 1971 see F01-H03.	1971	<b>F01-H08</b>	<b>Tension devices</b>	1994
<b>F01-H03C</b>	. <b>Bobbin and cop handling</b> e.g. doffing, donning, aligning, transporting. Prior to 1971 see F01-H03.	1971		<i>Previous code(s): F01-H</i>	
<b>F01-H03D</b>	. <b>Package formation, winding, coiling</b> Prior to 1972 see F01-H03.	1972	<b>F01-H09</b>	<b>Yarn cleaners</b>	1994
<b>F01-H03D1</b>	.. <b>Transfer tails</b>	1994		<i>Previous code(s): F01-H</i>	
	<i>Previous code(s): F01-H03D</i>		<b>F01-H</b>	<b>Others</b> Including testing and identification of fibres and filaments.	
<b>F01-H03D2</b>	.. <b>Thread traversing guides</b>	1994			
	<i>Previous code(s): F01-H03D</i>		<b>F01-J</b>	<b>OTHER FIBROUS FORMS</b>	1994
<b>F01-H03E</b>	. <b>Waste removal from cores</b>	1994	<b>F01-J01</b>	<b>Fibrids</b>	1994
	<i>Previous code(s): F01-H03</i>		<b>F01-J02</b>	<b>Synthetic pulps</b>	1994
			<b>F01-J</b>	<b>Other fibrous forms</b>	1994

## F02 FABRICS AND THEIR PRODUCTION

<b>F02-A</b>	<b>WEAVING</b>	
F02-A01	Warping, beaming, leasing, let-off	
F02-A02	Shedding mechanisms; patterns (cards, designing); dobbys, jacquard systems, healds, heddles	
F02-A03	Woven fabrics	
F02-A03A	. Of specified application Including carpets. Prior to 1972 see F02-A03.	1972
F02-A04	Methods of weaving, looms	
F02-A04A	. Conventional	
F02-A04B	. Shuttleless e.g. water jet, air jet, rapier, weft gripper looms.	
F02-A05	Auxiliary weaving apparatus, weavers' tools, shuttles Prior to 1971 see F02-A04.	1971
<b>F02-B</b>	<b>KNITTING</b>	
F02-B01	Patterns (cards, designing); control mechanisms	
F02-B02	Knit fabrics Including throw rugs.	
F02-B03	Methods of knitting; knitting machines	
F02-B03A	. Warp knitting	
F02-B03B	. Weft knitting	
F02-B04	Accessories for knitting machines Including feed devices, take-off devices. Prior to 1971 see F02-B03.	1971
<b>F02-C</b>	<b>NON-WOVEN FABRICS</b>	
F02-C01	Non-woven fabrics, felts, blankets, battings, waddings, stuffings	
F02-C01A	. Non-woven pile fabrics <i>Previous code(s): F02-C01</i>	1994
F02-C01B1	.. Self-bonded non-woven fabrics <i>Previous code(s): F02-C01</i>	1994
F02-C01B2	.. Self-bonded non-woven fabrics where the binder is of the same composition as the fibre <i>Previous code(s): F02-C01</i>	1994
F02-C01C	. Adhesive bonded non-woven fabric using adhesives or binders	2005

<b>F02-C02</b>	<b>Methods of manufacture; machinery, general</b> Including wet laying; dry laying; spin bonding (with F01-C+).	
F02-C02A	. Stitch-bonding	
F02-C02B	. Bonding of fibrous webs	
F02-C02B1	.. Using an adhesive Prior to 1972 see F02-C02B.	1972
F02-C02C	. Felting	
F02-C02D	. Needling, punching	
F02-C02E	. Wet laying	2005
F02-C02F	. Spunlacing, hydroentangling	2005
F02-C02G	. Air laying	2005
<b>F02-D</b>	<b>TUFTING AND TUFTED PRODUCTS</b>	
F02-D	Tufting and tufted products Including carpets.	
<b>F02-E</b>	<b>BRAIDING, LACE, TRIMMINGS, NETS</b>	
F02-E01	Braiding, plaiting and manufacture of lace including bobbin; net or carbonised lace; braiding machines; braid lace	
F02-E02	Trimmings; ribbons (including typewriter and computer), tapes, bands, narrow fabric; other webbing	
F02-E03	Making nets; making knotted carpets or tapestries; macrame; other knotting	
<b>F02-F</b>	<b>SEWING, EMBROIDERING</b>	
F02-F01	Sewing, general Including sewing threads (with F01-E).	
F02-F01A	. Sewing specific goods, general Prior to 1971 see F02-F01.	1971
F02-F01A1	.. Sewing fasteners Including slide fasteners, button (holes). Prior to 1986 see F02-F01A.	1986
F02-F01B	. Sewing accessories, general Prior to 1972 see F02-F01.	1972
F02-F01B1	.. Control devices, programs, microcomputers Prior to 1986 see F02-F01B.	1986
F02-F01B2	.. Feed or removal of cloth or work-pieces, trimming, cutting of threads Prior to 1986 see F02-F01B.	1986
F02-F02	Embroidering	

F02-G	PHYSICAL CHARACTERISTICS OF FABRICS	1994
F02-G01	General	1994
F02-G02	Crepe fabrics	1994
F02-G03	Pile fabrics See also non-woven pile fabrics F02-C01A.	1994
F02-G04	Stretch fabrics	1994
F02-G04A	. Due to fibres	1994
F02-G04B	. Due to fabric structure	1994
F02-G	Physical characteristics of fabrics, other	1994

## F03 TREATMENT OF FABRIC PRODUCTS

F03-A	MECHANICAL TREATMENT
F03-A01	Calendering, pleating, forming
F03-A02	Stretching, drying, setting, decatizing, stentering, tentering, mechanical shrinkproofing and stabilisation, relaxing
F03-A	Other e.g. shearing, napping, raising, singeing.
F03-B	BLEACHING AND BLEACHING AGENTS; SCOURING, DESIZING, MERCERISING, OPTICAL BLEACHING
F03-B01	Bleaching, optical bleaching
F03-B	Other
F03-C	CHEMICAL TREATMENT
F03-C01	Equipment
F03-C02	Repellents and retardants, general Including oil and soil.
F03-C02A	. Water proofing, rain proofing, hydrophobisation Prior to 1972 see F03-C02.
	1972
F03-C02B	. Biological repellents e.g. bactericides, germicides, insecticides, rot proofing. Prior to 1972 see F03-C02.
	1972
F03-C03	Flame proofing; fire retardants; melt proofing
F03-C03A	. Phosphorus containing material Prior to 1977 see F03-C03.
	1977
F03-C03B	. Antimony containing material Prior to 1977 see F03-C03.
	1977
F03-C03C	. Material containing halogen Prior to 1977 see F03-C03.
	1977
F03-C04	Durable press, wash-wear, crease-proofing, anti-pilling, shrinkproofing, dimensional stabilisation using resins or additives
F03-C05	Antistats, softeners, surfactants, processing aids, hygroscopic treatments
F03-C06	To improve dye receptiveness Prior to 1977 see F03-C.
	1977
F03-C07	To improve resistance of textiles to ageing e.g. by air, light and heat. Prior to 1977 see F03-C.
	1977

F03-C08	<b>Dissolving/degrading fibres to remove them or to improve properties such as drape</b> e.g. (partial) hydrolysis of polyester fibres with alkali. Prior to 1986 see F03-C in conjunction with F03-A.	1986
F03-C09	<b>Odorants, deodorants</b>	2005
F03-C	<b>Others</b>	
F03-D	<b>LAMINATING AND COMPOSITES</b>	
F03-D01	<b>Adhesive laminating</b>	
F03-D02	<b>Flame laminating</b>	
F03-D03	<b>Other laminating</b> Including flocking. Prior to 1971 see F03-D.	1971
F03-D04	<b>Fabric structures designed for reinforcement of solid materials</b> Such as plastics, concrete, metal. Prior to 1986 see F03-D.	1986
F03-D	<b>Composites; reinforced materials, general</b>	
F03-E	<b>TREATMENT NOT COVERED ELSEWHERE</b>	
F03-E01	<b>By coating</b> Prior to 1972 see F03-E.	1972
F03-E02	<b>Recycling, recovery</b> <i>Previous code(s): F03-E</i>	1994
F03-E	<b>Others</b> Including waste-water, recovering textile materials.	
F03-F	<b>DYEING AND/OR PRINTING</b> Formerly: Dyes and dyeing textiles etc.	
F03-F	<b>General dying processes</b> Applied from the start of CPI (1970) to the end of 1985 and was discontinued. From the start of 1986 see F03-F33.	1970-1985
F03-F01	<b>Equipment</b>	
F03-F02	<b>Animal substrates</b> e.g. silk, wool. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F03	<b>Vegetable substrates</b> e.g. cotton, linen. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F04	<b>Cellulose esters</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	

F03-F05	<b>Acrylic and modacrylic</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F06	<b>Polyamide or Nylon</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F06A	<b>Azo dyes, water soluble</b> Prior to 1977 see F03-F06.	1977
F03-F06B	<b>Azo dyes, water insoluble</b> Prior to 1977 see F03-F06.	1977
F03-F06C	<b>Anthraquinone dyes</b> Prior to 1977 see F03-F06.	1977
F03-F07	<b>Polyester</b> Including polycarbonate. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F07A	<b>Azo dyes, water soluble</b> Prior to 1977 see F03-F07.	1977
F03-F07B	<b>Azo dyes, water insoluble</b> Prior to 1977 see F03-F07.	1977
F03-F07C	<b>Anthraquinone dyes</b> Prior to 1977 see F03-F07.	1977
F03-F08	<b>Polyolefin</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F09	<b>Regenerated cellulose</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F10	<b>Polyurethane</b> e.g. spandex. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F11	<b>Vinyl</b> e.g. PVC, PVA. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F12	<b>Inorganic and metallic</b> Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	
F03-F13	<b>Solvent dyeing, general</b> Prior to 1971 no specific code was available; see codes for appropriate substrate.	1971

F03-F13A	<ul style="list-style-type: none"> <li><b>Of cotton, regenerated cellulose</b> Prior to 1971 no specific code was available; see codes for appropriate substrate.</li> </ul>	1971	F03-F21	<b>With anionic/acid dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate.	1986
F03-F13B	<ul style="list-style-type: none"> <li><b>Of other substrates</b> Prior to 1971 no specific code was available; see codes for appropriate substrate. &lt;yea1971</li> </ul>		F03-F22	<b>With cationic/basic dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate.	1986
F03-F14	<b>After treatment of coloured substrates</b> Prior to 1972 no specific code was available.	1972	F03-F23	<b>With vat/leuco dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate.	1986
F03-F15	<b>Other substrates</b> Prior to 1972 see F03-F. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	1972	F03-F24	<b>With sulphur dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate.	1986
F03-F16	<b>Dyes of general application</b> Prior to 1972 see F03-F. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.	1972	F03-F25	<b>With metal complex dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate.	1986
F03-F16A	<ul style="list-style-type: none"> <li><b>Azo dyes, water soluble</b> Prior to 1977 see F03-F16. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.</li> </ul>	1977	F03-F26	<b>Dyeing/printing using compositions in the form of foams</b> Prior to 1986 see F03-F or F03-G.	1986
F03-F16B	<ul style="list-style-type: none"> <li><b>Azo dyes, water insoluble</b> Prior to 1977 see F03-F16. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.</li> </ul>	1977	F03-F27	<b>Transfer dyeing/printing; sublimation printing</b> Including decalcomanias. Prior to 1986 see F03-G.	1986
F03-F16C	<ul style="list-style-type: none"> <li><b>Anthraquinone dyes</b> Prior to 1977 see F03-F16. Prior to 1986 this code retrieves only references to dyeing. For printing prior to 1986 see F03-G.</li> </ul>	1977	F03-F28	<b>Discharge or resist dyeing/printing</b> Prior to 1986 see F03-G.	1986
F03-F17	<b>With pigments and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate.	1986	F03-F29	<b>Cop dyeing, cheese dyeing, warp dyeing or printing</b> Prior to 1986 see F03-F or F03-G.	1986
F03-F18	<b>With disperse dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate.	1986	F03-F30	<b>Spin dyeing or bulk dyeing before fibre formation</b> Prior to 1986 see the appropriate substrate code from F03-F+ in conjunction with the appropriate code F01-D+.	1986
F03-F19	<b>With reactive dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate.	1986	F03-F31	<b>Other specific dyeing/printing processes</b> Prior to 1986 see F03-F or F03-G.	1986
F03-F20	<b>With direct dyes and associated materials/compositions</b> Prior to 1986 no specific code was available; see codes for appropriate substrate.	1986	F03-F32	<b>Dyeing auxiliaries</b> Excluding dye receptiveness improving agents for which see F03-C06; solvents, dyes. Prior to 1986 no specific code was available.	1986
			F03-F33	<b>General dyeing/printing</b> Prior to 1986 see F03-F or F03-G.	1986

F03-G	<b>PRINTING</b>
F03-G	<b>Printing</b> Applied from the start of CPI (1970) to the end of 1985 and was discontinued. From the start of 1986 see F03-F+.
	1970-1985
F03-H	<b>DECORATING TEXTILES, QUILTING</b>
F03-H	<b>Decorating textiles; quilting</b> Including metallising.
F03-J	<b>LAUNDERING, DRY CLEANING</b>
F03-J01	<b>Washing machines</b> Including (spin)driers. Prior to 1977 see F03-J.
	1977
F03-J02	<b>Ironing; smoothing</b> Prior to 1977 see F03-J.
	1977
F03-J03	<b>Laundry compositions</b> e.g. detergents. Prior to 1977 see F03-J.
	1977
F03-J04	<b>Dry cleaning</b> Prior to 1977 see F03-J.
	1977
F03-J	<b>General</b>
F03-K	<b>OTHER PROCESSES AND EQUIPMENT</b>
F03-K01	<b>Web handling, rolling, laying, widening</b> Prior to 1971 see F03-K.
	1971
F03-K02	<b>Analysis, inspection, testing, identification</b> Prior to 1971 see F03-K.
	1971
F03-K03	<b>Cutting, severing</b>
	1994
	<i>Previous code(s): F03-K</i>
F03-K	<b>Others</b> Including marketing, joining fabric lengths, general air conditioning of textile factories.

## F04 TEXTILE APPLICATIONS

F04-A	<b>ROPES, CABLES</b>
F04-A	<b>Ropes, cables</b> Including metal wires.
F04-B	<b>ARTIFICIAL LEATHER, WALL, FLOOR COVERING</b>
F04-B01	<b>Artificial leather, oil cloth, suede</b>
F04-B01A	. With polyurethane
F04-B01B	. With polyvinyl chloride
F04-B02	<b>Roofing felt, linoleum, (vinyl) floor covering</b>
F04-B03	<b>Artificial fur</b> Prior to 1986 see F04-B in conjunction with F04-C and F04-D.
	1986
F04-B	<b>Other flexible sheet material</b> Including tarpaulins.
F04-C	<b>WEARING APPAREL</b>
F04-C01	<b>Underwear; baby linen (including diapers); handkerchiefs; foundation garments; pantyhose and tights</b> With F04-C02.
F04-C01A	. <b>Baby linen</b> Including diapers and baby training pants
	2005
F04-C02	<b>Hosiery, socks, stockings, pantyhose and tights</b> With F04-C01.
F04-C03	<b>Outerwear</b> Including coats, jackets, shirts, skirts, dresses, jumpers.
F04-C04	<b>Garment fastenings, suspenders, slide fasteners, buttons and button holes, belts</b>
F04-C05	<b>Accessories</b> e.g. hats, footwear.
F04-C05A	. <b>Footwear</b>
	2005
F04-C06	<b>Protective clothing</b>
	1994
	<i>Previous code(s): F04-C+</i>
F04-C	<b>General</b> Including garment linings and interlinings. Prior to 1971 no specific code was available.
	1971

<b>F04-D</b>	<b>HOME FURNISHINGS</b>	
<b>F04-D01</b>	<b>Sheets, blankets, bed linen</b>	
<b>F04-D02</b>	<b>Table linen, tablecloths</b>	
<b>F04-D03</b>	<b>Draperies and upholstery, curtains</b>	
<b>F04-D04</b>	<b>Carpets</b>	1994
	<i>Previous code(s): F04-D</i>	
<b>F04-D</b>	<b>Home furnishings, general</b>	
	Including towels. Prior to 1971 no specific code was available.	1971
<b>F04-E</b>	<b>INDUSTRIAL FABRICS AND PRODUCTS</b>	
<b>F04-E01</b>	<b>Tyre cord, chafer fabric</b>	
<b>F04-E02</b>	<b>Military</b>	
	Including parachutes, camouflage.	
<b>F04-E03</b>	<b>Automotive</b>	
	Including seats, upholstery.	
<b>F04-E03A</b>	<b>. Airbags</b>	1994
	<i>Previous code(s): F04-E03</i>	
<b>F04-E03B</b>	<b>. Safety belts</b>	1994
	<i>Previous code(s): F04-E03</i>	
<b>F04-E03C</b>	<b>. Seats, upholstery</b>	1994
	<i>Previous code(s): F04-E03</i>	
<b>F04-E04</b>	<b>Surgical and medical products</b>	
	Including prostheses, sutures, dialysis, bandages, dressings.	
<b>F04-E05</b>	<b>Filter material, general</b>	
	Including cigarette filters. Prior to 1971 see F04-E.	1971
<b>F04-E05A</b>	<b>. Paper making machine felts, belts, Fourdrinier wires</b>	
	Prior to 1986 see F04-E05.	1986
<b>F04-E06</b>	<b>Thermal and acoustic insulation</b>	
	Prior to 1972 see F04-E.	1972
<b>F04-E07</b>	<b>Belts</b>	
	Prior to 1972 see F04-E.	1972
<b>F04-E</b>	<b>Others</b>	
	Including hose and ion-exchange fibres.	
<b>F04-F</b>	<b>FABRICATION OF FABRIC PRODUCTS</b>	
<b>F04-F01</b>	<b>Cutting fabric and other processes in making clothes</b>	
	Including hats, slide fasteners, button holes.	
<b>F04-F02</b>	<b>Manufacturing footwear</b>	
<b>F04-F03</b>	<b>Manufacturing other fabric products</b>	
<b>F04-F04</b>	<b>Labelling, packaging</b>	
<b>F04-G</b>	<b>PRODUCTS MADE OF FIBRES OTHER THAN FABRICS</b>	
<b>F04-G01</b>	<b>Optical fibres, cables</b>	
	For structures of fibres see F01-E01. Prior to 1986 see F04-G in conjunction with F01-E01.	1986
<b>F04-G</b>	<b>Others</b>	
	Including brushes, fishing lines, edible products, gut for racquets, artificial seaweed for preventing erosion. Prior to 1971 no specific code was available.	1971

**F05 PAPER AND WOOD**

F05-A	PAPER MAKING, CELLULOSE, FIBRE-BOARD	
F05-A01	Fibrous raw material (and mechanical treatment)	
F05-A02	Production of cellulose by removing non-cellulosic substances	
F05-A02A	. Pretreatment before digesting; pulping Prior to 1971 see F05-A02.	1971
F05-A02B	. Pulp after-treatment, working up waste paper, other processes, bleaching of pulp Prior to 1971 see F05-A02.	1971
F05-A02C	. Regeneration of pulp liquors, use of residues, treatment of waste water Prior to 1971 see F05-A02.	1971
F05-A03	Treatment of digested materials before passing to the paper-making machine; adding substances to the web on the machine Including methods of beating; mechanical purification, screening.	
F05-A04	Paper-making and machines	
F05-A04A	. Wet end of machines, general Including head boxes. Prior to 1971 see F05-A04.	1971
F05-A04B	. Wet end, dewatering Prior to 1971 see F05-A04.	1971
F05-A04C	. Transfer wet to press, press section, drier section, other machine details Prior to 1971 see F05-A04.	1971
F05-A04D	. Complete machines, processes for making paper, cardboard e.g. corrugated, blotting. Prior to 1971 see F05-A04.	1971
F05-A04E	. Sterilization and cleaning of equipment Including general air conditioning of paper factories, dust removal etc.	2005
F05-A05	Calenders, doctors, accessories for paper making machines; testing paper; winding up paper	
F05-A05A	. Testing paper Including equipment.	2005
F05-A05B	. Embossing, stamping and forming Including equipment.	2005

F05-A06	Cardboard, paper manufacture not covered elsewhere; paper compositions and auxiliary materials; special paper or cardboard types Including those prepared from basically non-cellulosic compositions	
F05-A06A	. Multiply materials Including corrugated cardboard. Prior to 1971 see F05-A06.	1971
F05-A06A1	.. Corrugated cardboard/paper	2005
F05-A06A2	.. Multiply tissue and wipes	2005
F05-A06B	. Paper, cardboard by applying coatings Including adhesives and surface sizing. Prior to 1971 see F05-A06.	1971
F05-A06C	. Paper, cardboard by adding polymers, resins Prior to 1971 see F05-A06.	1971
F05-A06D	. Paper, cardboard by adding (in)organic compounds Including dyes and optical brighteners. Prior to 1971 see F05-A06.	1971
F05-A06E	. Cardboard or paper prepared from basically non-cellulosic compositions Prior to 1986 see F05-A06.	1986
F05-A07	Fibreboard, chipboard, manufacture of articles from fibrous cellulosic suspensions or papier-mache e.g. disposable diapers.	

F05-B	<b>PRESERVATION AND TREATMENT OF WOOD</b>	
F05-B01	<b>Preservation</b> Including fungicide, insecticide, germicide. Prior to 1971 no specific code was available.	1971
F05-B	<b>Plywood; other treatment</b> Including staining, dyeing, bleaching, drying, flame proofing. Prior to 1971 no specific code was available.	1971



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## G: PRINTING, COATING, PHOTOGRAPHIC

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|-----|--|
| G01 | Non-Fibrous Inorganic Pigments, Fillers          |
| G02 | Coatings, Paints, Inks, Natural Resins, Polishes |
| G03 | Adhesives  |
| G04 | Miscellaneous Compositions and Applications      |
| G05 | Printing   |
| G06 | Photographic Materials and Processes             |



## G: PRINTING, COATING, PHOTOGRAPHIC

Code commenced 197001.

### G01 NON-FIBROUS INORGANIC PIGMENTS, FILLERS

G01-A	PREPARATION, TREATMENT OR COMPOSITIONS OF SPECIFIC PIGMENTS, FILLERS When a pigment or filler contains more than one of the elements below, it is searchable using all the relevant codes.
G01-A01	Alkaline earth metal compounds
G01-A02	Zinc compounds
G01-A03	Cadmium compounds
G01-A04	Lead compounds
G01-A05	Iron compounds
G01-A06	Silicon compounds Excluding clays, for which see G01-A10.
G01-A07	Chromium compounds
G01-A08	Titanium compounds
G01-A09	Mercury compounds
G01-A10	Aluminium compounds Including clays.
G01-A11	Carbon type
G01-A12	Metallic, general
G01-A12A	. Aluminium (alloy) powders, flakes Prior to 1986 see G01-A12.
	1986
G01-A13	Cobalt, nickel and copper compounds
	2005
G01-A14	Vanadium, molybdenum and tungsten compounds
	2005
G01-A15	Rare earth metal compounds
	2005
G01-A16	Antimony, tin and indium compounds
	2005
G01-A	Others
G01-B	TREATMENT TO ENHANCE PROPERTIES OF INORGANIC PIGMENTS AND FILLERS
G01-B	General treatment to enhance properties Applied from 1970 to the end of 1985 and was then discontinued.
	1970-1985

G01-B01	Physical treatment e.g. grinding, microwave. Prior to 1986 see G01-B.
	1986
G01-B02	Inorganic treatment Prior to 1986 see G01-B.
	1986
G01-B03	Organic treatment Including with polymer. Prior to 1986 see G01-B.
	1986
G01-C	MULTICOMPONENT OR COMPOSITE PIGMENTS (CONTAINING AT LEAST ONE INORGANIC COMPONENT)
	2005
G02	COATINGS, PAINTS, INKS, NATURAL RESINS, POLISHES
G02-A	PAINTS, VARNISHES, LACQUERS, INKS, PENCIL LEADS, CRAYONS, OTHER COATINGS
G02-A01	Paints, varnishes, lacquers based on inorganic film formers
G02-A01A	. Silicone based Prior to 1972 see G02-A01.
	1972
G02-A02	Paints, varnishes, lacquers based on organic film formers
G02-A02A	. Natural polymers
G02-A02B	. Synthetic polymers, general Excluding silicone polymers, for which see G02-A01A.
G02-A02B1	.. Addition polymer based paint Indexed for the generic case.
	1994
	Previous code(s): G02-A02C, G02-A02D
G02-A02B2	.. Condensation polymer based paint Indexed for the generic case.
	1994
	Previous code(s): G02-A02B
G02-A02C	. Acrylics, general Prior to 1972 see G02-A02B.
	1972
G02-A02C1	.. Containing epoxy groups Prior to 1977 see G02-A02C.
	1977
G02-A02C2	.. Hydroxyalkyl acrylates Prior to 1977 see G02-A02C.
	1977
G02-A02C3	.. Aminoalkyl acrylates Prior to 1977 see G02-A02C.
	1977

G02-A02C4	.. <b>Acrylic nitriles, acids, amides, di- and polyacrylates</b> Excluding acrylated resins, for which see the appropriate unmodified resin. Prior to 1986 see G02-A02C.	1986	G02-A04A	. <b>Inks</b> Prior to 1977 see G02-A04.	1977
G02-A02D	. <b>Other vinyls and addition polymers</b> Prior to 1972 see G02-A02B.	1972	G02-A04B	. <b>Dyes and pigments for inks, crayons</b> Prior to 1977 see G02-A04.	1977
G02-A02D1	.. <b>From diene or polyene monomers</b> Excluding di- and poly- acrylates, for which see G02-A02C4. Prior to 1977 see G02-A02D.	1977	G02-A05	<b>Other coating compositions</b> Prior to 1971 no specific code was available.	1971
G02-A02D2	.. <b>Vinyl halide polymers</b> Prior to 1977 see G02-A02D.	1977	G02-A05A	. <b>For wire</b> Including electrical conductors and cables. Prior to 1977 see G02-A05.	1977
G02-A02D3	.. <b>From vinyl carboxylates or unsaturated acids other than acrylics</b> Or derivatives e.g. anhydride or ester. Prior to 1977 see G02-A02D.	1977	G02-A05B	. <b>For other electrical or magnetic material</b> Prior to 1977 see G02-A05.	1977
G02-A02D4	.. <b>Polymers from other unsaturated aromatics</b> e.g. styrenes. Prior to 1977 see G02-A02D.	1977	G02-A05B1	.. <b>For magnetic recording materials</b> For magneto-optical layers see also G06-D07.	1994
G02-A02E	. <b>Polyesters</b> Including alkyds. Prior to 1972 see G02-A02B.	1972	G02-A05C	. <b>Paper coatings</b> Prior to 1977 see G02-A05.	1977
G02-A02F	. <b>Phenoplasts, aminoplasts</b> Prior to 1972 see G02-A02B.	1972	G02-A05D	. <b>Non-stick, release and fire-proof coatings</b> Prior to 1977 see G02-A05.	1977
G02-A02G	. <b>Epoxy resins.</b> Prior to 1972 see G02-A02B.	1972	G02-A05E	. <b>Corrosion-resistant coatings for metal; primers</b> Prior to 1977 see G02-A05.	1977
G02-A02H	. <b>Polyurethanes</b> Prior to 1972 see G02-A02B.	1972	G02-A05F	. <b>Coatings for concrete, masonry, walls, (including water proofing for these substrates); road paints; traffic sign paints</b> Prior to 1977 see G02-A05.	1977
G02-A03	<b>Additives for paints, varnishes, lacquers</b>		G02-A05G	. <b>Antifouling coatings</b> <i>Previous code(s): G02-A05</i>	1994
G02-A03A	. <b>Organic pigment</b> Prior to 1972 see G02-A03.	1972	G02-A05H	. <b>Coatings on Optical fibres</b> <i>Previous code(s): G02-A05</i>	1994
G02-A03B	. <b>Antifouling additives</b> Prior to 1977 see G02-A03.	1977	G02-A05J	. <b>Anti-graffiti coatings</b> <i>Previous code(s): G02-A05</i>	1994
G02-A03C	. <b>Paint and ink removers, correcting fluids</b> Prior to 1977 see G02-A03.	1977	G02-A05K	. <b>Coatings for glass</b> (excluding G02-A05H) e.g. scratch resistance, anti-reflective, IR or UV absorption.	2005
G02-A03D	. <b>Inorganic pigment for paint</b> <i>Previous code(s): G02-A03</i>	1994	G02-A06	<b>Painting processes with no specific paint</b>	1994
G02-A04	<b>Printing and writing inks; pencil leads, crayons, general</b>				

G02-A06A	. Paint spray booth cleaning/ maintenance	1994
G02-A07	Shape and form of coatings	2006
G02-A07A	. Powder coatings	2006
G02-A07A1	.. In slurry form	2006
G02-B	NATURAL RESINS, DRIERS, FRENCH POLISH	
G02-B01	Obtaining, purification, and chemical modification of natural resins e.g. oleo-resins.	
G02-B02	Obtaining spirits of turpentine	
G02-B03	Obtaining, purifying and chemical modification of drying oils	
G02-B04	Driers (siccatives)	
G02-B05	Preparation of French polish	
G02-C	OTHER POLISHING COMPOSITIONS, SKI WAXES	
G02-C	Other polishing compositions; ski waxes	

## G03 ADHESIVES

Macromolecular adhesives, other than glue or compositions based on them are classified in Section A, but their use for adhesive purposes is also classified here.

G03-A	GLUE, GELATIN	
G03-A	Glue; gelatin	
G03-B	OTHER ADHESIVES, GENERAL ADHESIVE PROCESSES	
G03-B01	Inorganic Including silicone resins.	
G03-B02	Organic	
G03-B02A	. Natural polymers Excluding glue or gelatin, for which see G03-A and excluding rubber, for which see G03-B02B.	
G03-B02B	. Natural or synthetic rubbers	
G03-B02C	. Synthetic polymers, general	
G03-B02D	. Synthetic polymers, addition Prior to 1971 see G03-B02C.	1971
G03-B02D1	.. Acrylic polymers Prior to 1977 see G03-B02D.	1977
G03-B02D2	.. Polymers from vinyl halides or vinyl carboxylates Prior to 1977 see G03-B02D.	1977
G03-B02D3	.. Styrene polymers (optionally substituted); polymers from olefinic hydrocarbons Prior to 1977 see G03-B02D.	1977
G03-B02E	. Synthetic polymers, condensation Prior to 1971 see G03-B02C.	1971
G03-B02E1	.. Aminoplasts, phenoplasts Prior to 1977 see G03-B02E.	1977
G03-B02E2	.. Epoxy resins Prior to 1977 see G03-B02E.	1977
G03-B02E3	.. Polyesters Prior to 1977 see G03-B02E.	1977
G03-B02E4	.. Polyurethanes; polyureas; other isocyanate resin-based adhesives Prior to 1977 see G03-B02E.	1977
G03-B03	Adhesive processes, general	
G03-B04	Adhesive compositions in the form of film or foils; adhesive tape e.g. on carriers.	

## G04 MISCELLANEOUS COMPOSITIONS AND APPLICATIONS

G04-A	LUMINESCENT OR TENEBRESCENT MATERIALS
G04-A01	Photochromic or tenebrescent materials 1994 <i>Previous code(s): G04-A</i>
G04-A	Luminescent materials; phosphor compositions
G04-B	OTHER COMPOSITIONS, USES IN OTHER PROCESSES
G04-B01	Materials for heat transfer or for producing differences in temperature other than by combustion; antifreeze e.g. by change in physical state.
G04-B01A	. Halogen containing refrigerants Prior to 2008 see G04-B01. 2008
G04- B01A1	.. Refrigerants containing fluorine as the only halogen Prior to 2008 see G04-B01. 2008
G04- B01A2	.. Refrigerants containing both fluorine and chlorine Prior to 2008 see G04-B01. 2008
G04- B01A3	.. Fluoroether refrigerants Prior to 2008 see G04-B01. 2008
G04-B01B	. Hydrocarbon refrigerants Prior to 2008 see G04-B01. 2008
G04-B01C	. CO <sub>2</sub> as refrigerant Prior to 2008 see G04-B01. 2008
G04-B01E	. Other specific chemicals as refrigerants Prior to 2008 see G04-B01. 2008
G04-B01F	. Refrigerant compositions or blends containing 2 or more refrigerants Prior to 2008 see G04-B01. 2008
G04-B02	Materials for sealing and packing joints or covers
G04-B03	Antistatic Other than in Section A and G06-A03.
G04-B04	Antislip; abrasive Other than in Section A.
G04-B05	De-icing and de-misting
G04-B06	Fire-proofing Other than in Section A or F.
G04-B07	Aerosol compositions

G04-B08	Degreasing, cleaning, scouring and bleaching Other than in Section D or F. Prior to 1972 see G04-B. 1972
G04-B09	Flaw detection (including defectoscopy) and temperature sensitive compositions Prior to 1972 see G04-B. 1972
G04-B	Other compositions Including liquid crystals.



**G05 PRINTING**

G05-A	PRINTING PLATES	
G05-A	General	
G05-A01	Lithographic (planographic)	
G05-A02	Letterpress and deep relief (inc. flexographic)	
G05-A03	Intaglio (gravure)	
G05-A04	Stencils	
G05-B	PHOTOSENSITIVE RESISTS	1970-1993
G05-B	Photosensitive resists	1970-1993
G05-C	COLOUR PROOFING	
G05-C	Colour proofing	
G05-D	PRESSURE SENSITIVE COPYING MATERIALS	
G05-D	Pressure sensitive copying materials Prior to 1971 no specific code was available.	1971
G05-E	NON-RADIATION SENSITIVE COPYING MATERIALS	
G05-E	Non-radiation sensitive copying materials Including electrolytic recording. Prior to 1971 no specific code was available.	1971
G05-F	OTHER PRINTING MATERIALS AND PROCESSES	
G05-F01	Decalcomanias, transfers, transfer compositions Prior to 1986 see G05-F.	1986
G05-F02	Thermal heads  <i>Previous code(s): G05-F</i>	1994
G05-F03	Ink jets/ink jet printing For inks used in ink-jet printing see G02-A04+.	1994
G05-F	Other printing materials and processes Including magnetography; cleaning printing plates. Prior to 1971 no specific code was available.	1971

**G06 PHOTOGRAPHIC MATERIALS AND PROCESSES**

G06-A	NON-SENSITIVE AGENTS AND LAYERS	
G06-A01	Subbing	
G06-A02	Antihalation Including filters, screening dyes.	
G06-A02A	. Anti-reflective layer	2005
G06-A03	Antistatic	
G06-A04	Receiving Including nucleating, nuclei.	
G06-A05	Stripping, release	
G06-A06	Binders Prior to 1971 see G06-A.	1971
G06-A07	Electrically conductive layers for electrophotography Prior to 1972 see G06-A.	1972
G06-A08	Barrier, protective, scratch resistant layers Prior to 1986 see G06-A.	1986
G06-A09	Intensifying screens, conversion screens, storage phosphors for X-ray materials Prior to 1986 see G06-A in conjunction with G04-A, G06-D01 and G06-H07.	1986
G06-A10	Intermediate layer Indexed where the function of the layer is unspecified.  <i>Previous code(s): G06-A</i>	1994
G06-A11	Reflective layer  <i>Previous code(s): G06-A</i>	1994
G06-A12	Magnetic layer See also G02-A05B1.  <i>Previous code(s): G06-A</i>	1994
G06-A13	Dielectric layer  <i>Previous code(s): G06-A</i>	1994
G06-A	Other layers Including carrier, timing and anti-curl layers.	

<b>G06-B</b>	<b>SUPPORTS</b>
<b>G06-B01</b>	<b>Polymeric</b>
<b>G06-B02</b>	<b>Paper</b>
<b>G06-B03</b>	<b>Metal</b>
<b>G06-B</b>	<b>Other supports</b> e.g. glass.
<b>G06-C</b>	<b>PHOTOSENSITIVE SYSTEMS BY TYPE</b>
<b>G06-C01</b>	<b>Photosensitive layers having an incorporated coupler</b>
<b>G06-C02</b>	<b>Kodachrome type colour materials</b> i.e. soluble coupler reacts with oxidised developer to form insoluble dye.
<b>G06-C03</b>	<b>Dye destruction colour materials</b> e.g. silver dye bleach materials.
<b>G06-C04</b>	<b>Electrophotographic colour materials</b>
<b>G06-C05</b>	<b>Direct positive materials</b>
<b>G06-C06</b>	<b>Print-out materials</b> Including ablative systems.
<b>G06-C07</b>	<b>Photodevelopable or direct-print materials</b>
<b>G06-C08</b>	<b>Heat developable, photosensitive materials</b>
<b>G06-C09</b>	<b>Multicolour diffusion transfer materials</b>
<b>G06-C09A</b>	. <b>Multicolour dye release diffusion transfer materials</b> Where, e.g., existing dyestuffs attached to ballast groups are released during development for diffusion. Prior to 1986 see G06-C09 in conjunction with G06-G10 and G06-G14. 1986
<b>G06-C10</b>	<b>Single colour diffusion transfer materials</b>
<b>G06-C10A</b>	. <b>Single colour dye release diffusion transfer materials</b> Where, e.g., existing dyestuffs attached to ballast groups are released during development for diffusion. Prior to 1986 see G06-C10 in conjunction with G06-G01 and G06-G04. 1986
<b>G06-C11</b>	<b>Colloid transfer materials</b>
<b>G06-C12</b>	<b>Imbibition dye transfer systems</b>
<b>G06-C13</b>	<b>Additive colour systems</b>
<b>G06-C14</b>	<b>Elements with several (electro)-photographically active layers</b> e.g. multilayer colour-sensitive systems, or multilayer electro-photographic systems. Prior to 1986 no specific code was available. 1986
<b>G06-C14A</b>	. <b>Red sensitive layer</b> Prior to 1986 no specific code was available. 1986

<b>G06-C14B</b>	. <b>Blue sensitive layer</b> Prior to 1986 no specific code was available. 1986
<b>G06-C14C</b>	. <b>Green sensitive layer</b> Prior to 1986 no specific code was available. 1986
<b>G06-C15</b>	<b>Releasing photographically active components on processing, other than dyestuffs</b> Prior to 1986 no specific code was available for this concept. See the codes for the individual active components released. 1986
<b>G06-C16</b>	<b>Microencapsulated photosensitive systems</b>  <i>Previous code(s): G06-C</i> 1994
<b>G06-C</b>	<b>Other systems and materials</b> Including vesicular; systems with light induced adhesiveness developed by toning.
<b>G06-D</b>	<b>APPLICATIONS</b>
<b>G06-D01</b>	<b>X-ray materials</b>
<b>G06-D02</b>	<b>Lithographic films, papers (high contrast)</b>
<b>G06-D03</b>	<b>Direct electron recording</b>
<b>G06-D04</b>	<b>Photoresists</b> Excluding G06-D05+, G06-D06.
<b>G06-D05</b>	<b>Production of printing plates</b> Prior to 1971 see G06-D. 1971
<b>G06-D05A</b>	. <b>Electrophotographically</b> Prior to 1986 see G06-D05. 1986
<b>G06-D06</b>	<b>Production of electrical elements</b> Prior to 1971 see G06-D. 1971
<b>G06-D06A</b>	. <b>Circuits and circuit components</b> e.g. semiconductors 2005
<b>G06-D06B</b>	. <b>Optoelectronic</b> e.g. LCD, optical filters, wave guides. 2005
<b>G06-D07</b>	<b>Optical storage media</b> Including optical discs, laser recording discs and magneto-optical discs. Prior to 1986 see G06-D. 1986
<b>G06-D</b>	<b>Other applications</b> Including microfilms, cine-sound tracks, identity cards; holograms (with G06-E).

<b>G06-E</b>	<b>SPECIAL TECHNIQUES</b>	
<b>G06-E01</b>	<b>Screening (half tones)</b>	
<b>G06-E02</b>	<b>Masking</b>	
<b>G06-E03</b>	<b>In-camera processing</b> Including integral film packs, e.g. 'Polaroid'®.	
<b>G06-E04</b>	<b>Coating</b>	
<b>G06-E05</b>	<b>Drying</b> Including during manufacture.	
<b>G06-E</b>	<b>Other</b> Including holograms (with G06-D); silver recovery; packaging of photographic materials.	
<b>G06-F</b>	<b>RADIATION SENSITIVE SYSTEMS</b> i.e. element in systems.	
<b>G06-F01</b>	<b>Silver halide</b>	
<b>G06-F01A</b>	. <b>Silver halide tabular grain emulsion</b> <i>Previous code(s): G06-F01</i>	1994
<b>G06-F01B</b>	. <b>Silver halide core-shell emulsion</b> <i>Previous code(s): G06-F01</i>	1994
<b>G06-F02</b>	<b>Diazo</b>	
<b>G06-F03</b>	<b>Polymeric</b>	
<b>G06-F03A</b>	. <b>Photoconductors</b> Prior to 1977 see G06-F03 in conjunction with G06-F06.	1977
<b>G06-F03B</b>	. <b>Radiation-sensitive composition containing monomer</b> Prior to 1977 see G06-F03.	1977
<b>G06-F03C</b>	. <b>Radiation-sensitive composition containing polymer</b> Prior to 1977 see G06-F03.	1977
<b>G06-F03D</b>	. <b>Additives</b> e.g. photosensitisers. Prior to 1977 see G06-F03.	1977
<b>G06-F04</b>	<b>Non-silver metals and their compounds</b>	
<b>G06-F05</b>	<b>Radiation-sensitive dyes</b>	
<b>G06-F06</b>	<b>Organic photoconductors, charge generators, charge transport materials</b>	
<b>G06-F07</b>	<b>Inorganic photoconductors, charge generators, charge transport materials</b>	
<b>G06-F07A</b>	. <b>ZnO or Selenium</b> Including Selenium alloys or compounds. Prior to 1972 see G06-F07.	1972
<b>G06-F08</b>	<b>Heat sensitive</b> Including thermographic and infra-red systems.	
<b>G06-F08A</b>	. <b>Containing novel active materials</b> Such as (leuco) dyes, couplers, chromogenic compounds (colour formers), electron donors, electron acceptors. Prior to 1986 see G06-F08.	1986
<b>G06-F</b>	<b>Others</b> Including silver salts other than halide.	
<b>G06-G</b>	<b>PROCESSING AGENTS AND STEPS</b> Black and white silver halide processing.	
<b>G06-G01</b>	<b>Developing</b>	
<b>G06-G02</b>	<b>Fixing</b>	
<b>G06-G03</b>	<b>Stabilisation processing</b>	
<b>G06-G04</b>	<b>Other processing steps</b> Electrophotographic	
<b>G06-G05</b>	<b>Dry toning</b>	
<b>G06-G05A</b>	. <b>Dry toning composition</b>	2005
<b>G06-G05B</b>	. <b>Substrates for electrophotographic printing</b>	2005
<b>G06-G06</b>	<b>Liquid toning</b>	
<b>G06-G07</b>	<b>Charging</b>	
<b>G06-G08</b>	<b>Other processing steps</b>	
<b>G06-G08A</b>	. <b>Imaging methods</b> Including deformation of thermoplastic layers, electrophoretic compositions. Prior to 1972 see G06-G08.	1972
<b>G06-G08B</b>	. <b>Toner transfer processes</b> Prior to 1986 see G06-G08.	1986
<b>G06-G08C</b>	. <b>Fusing, fixing processes</b> Prior to 1986 see G06-G08.	1986
<b>G06-G08D</b>	. <b>Charge transfer, latent image transfer processes</b> Prior to 1986 see G06-G08.	1986
<b>G06-G08E</b>	. <b>Cleaning processes</b>	2005
<b>G06-G09</b>	<b>Diazo processing (including ammonia vapour)</b> Colour silver halide processing.	
<b>G06-G10</b>	<b>Development</b>	
<b>G06-G11</b>	<b>Bleaching</b>	
<b>G06-G12</b>	<b>Fixing</b>	
<b>G06-G13</b>	<b>Stabilisation processing</b>	
<b>G06-G14</b>	<b>Other steps</b>	
<b>G06-G15</b>	<b>Monobath processing</b>	
<b>G06-G16</b>	<b>Reversal processing (two development steps give direct positive image)</b>	

G06-G17	Development of photosensitive resin systems Prior to 1986 see G06-G. 1986
G06-G18	Image formation by exposure to ionising radiation, light etc. Prior to 1986 no specific code was available. 1986
G06-G	Others

G06-H	PHOTOGRAPHIC AGENTS
G06-H01	Chemical sensitisers
G06-H02	Fungicides, bactericides
G06-H03	Antifoggants, emulsion/developer stabilisers
G06-H04	Covering power increasing agents
G06-H05	Image toners (non-electrophotographic)
G06-H06	Desensitisers Including electron acceptors.
G06-H07	Spectral (optical) sensitisers
G06-H07A	. Cyanines
G06-H07B	. Merocyanines (neutrocyanine)
G06-H07C	. Oxanols
G06-H07D	. Pyrylium types
G06-H08	Couplers
G06-H08A	. Phenolic (naphtholic)
G06-H08B	. Pyrazolones
G06-H08C	. Keto-methylene types
G06-H08D	. Pyrazolotriazole couplers 1994 <i>Previous code(s): G06-H08</i>
G06-H09	Brighteners
G06-H09A	. Oxazoles
G06-H09B	. Stilbenes
G06-H09C	. Coumarins
G06-H09D	. Thiazoles
G06-H10	Mordants
G06-H11	Image stabilisers
G06-H12	Development accelerators
G06-H13	Development restrainers
G06-H14	Hardeners (used for anti-hardeners, crosslinking agents)
G06-H15	Plasticisers
G06-H16	Matting agents
G06-H17	Lubricants
G06-H18	Coating aids
G06-H19	Other specific agents Including materials such as solvents for incorporation of incompatible (e.g. hydrophobic) agents in photographic compositions or layers. Prior to 1986 see G06-H. 1986
G06-H	Miscellaneous materials of unspecified photographic use





## H:

### PETROLEUM

H01	Crude Oil and Natural Gas
H02	Unit Operations
H03	Transportation and Storage
H04	Petroleum Processing
H05	Refinery Engineering
H06	Gaseous and Liquid Fuels
H07	Lubricants and Lubrication
H08	Other Petroleum Products
H09	Fuels not of Petroleum Origin





## H: PETROLEUM

Code commenced at CPI Week 197001.

### H01 CRUDE OIL AND NATURAL GAS

H01-A	EXPLORATION	
H01-A01	Geological; geophysical E.g. seismic exploration	
H01-A01A	. Seismic surveying For exploration prior to well drilling. For well logging see H01-A02	2006
H01-A02	Well logging, general	
H01-A02A	. Electric logging	1986
H01-A02B	. Radioactive logging	1986
H01-A02C	. Acoustic logging	1986
H01-A	Unclassified	197031
H01-B	DRILLING	
H01-B01	Marine structures and equipment	
H01-B01A	. Fixed multi-well platforms	1986
H01-B01B	. Mobile jack-up platforms	1986
H01-B01C	. Drill ships	1986
H01-B01D	. Semi-submersible platforms	1986
H01-B01E	. Decommissioning of marine production platforms Including reuse of upper parts, such as decks	2002
H01-B02	Slim hole drilling	
H01-B03	Rotary drilling	
H01-B03A	. Derricks, rig floor equipment Including downhole blowout preventers	197031
H01-B03A1	.. Derricks	1986
H01-B03A2	.. Drilling mud mixing and return mud processing	1986
H01-B03A3	.. Hoisting and rotating equipment	1986
H01-B03B	. Well control equipment. Also includes logging-while-drilling and measuring and controlling downhole conditions/parameters, etc.	197031
H01-B03B1	.. Logging while drilling	1986
H01-B03B2	.. Measuring procedures and equipment	1986
H01-B03B3	.. Valves and control equipment Including downhole blowout preventers	1986
H01-B03C	. Subsurface equipment	197031
H01-B03C1	.. Drill bits	1986
H01-B03C2	.. Drill collars	1986
H01-B03C3	.. Drill pipe	1986
H01-B03C4	.. Kelly	1986
H01-B03C5	.. Drill and casing protectors, Centralisers	2006
H01-B03C6	.. Drilling riser	2007
H01-B03D	. Transmission/generation of power, data etc. Includes cables, connectors, antennae etc. for downhole use	2005
H01-B04	Cable drilling	
H01-B05	Other drilling methods and equipment Including electric, explosive, thermal and hydraulic, also includes under-reamer assemblies	
H01-B05A	. Directional and turbo-drilling	1986
H01-B05B	. Coring E.g. sampling	1986
H01-B06	Drilling fluids	1994
H01-B06A	. Water-based drilling fluids	1986
H01-B06B	. Oil based drilling fluids	1986
H01-B06C	. Drilling fluid additives	1994
H01-B07	Fishing and retrieval tools	
H01-B08	Testing operations and equipment, general	1986
H01-B	Unclassified	

H01-C	<b>WELL COMPLETION, STIMULATING, AND SERVICING</b>		H01-D06E	. Alkaline flooding	2002
H01-C01	Casing and tubing excluding well packers, general		H01-D07	Repressuring	
H01-C01A	. Well packers	1986	H01-D08	Thermal methods E.g. steam injection, microwaves, etc.	
H01-C01B	. Joining of casing Includes of formation of joints and lateral wellbore sections	2005	H01-D09	Chemical methods	
H01-C02	Cementing		H01-D10	Oil shale treatment and equipment	
H01-C02A	. Methods and equipment	1986	H01-D11	Tar sands treatment and equipment E.g. bitumen extraction	
H01-C02B	. Cement compositions	1986	H01-D12	Testing, control operations and equipment, general	1986
H01-C03	Fracturing		H01-D13	Methods using bacteria	1994
H01-C04	Acidising		H01-D14	Water control methods For compositions, see H01-C12	2005
H01-C05	Perforating		H01-D	Unclassified	
H01-C06	Wellhead equipment, general		H01-E	<b>TREATING AND TESTING</b> Does not include well treatment procedures already covered in H01-C:	
H01-C06A	. Blowout preventers	1986	H01-E01	Emulsion breaking, desalting and dehydrating	
H01-C07	Screens and liners		H01-E02	Corrosion inhibiting	
H01-C08	Gravel packing		H01-E03	Testing crude oils	2005
H01-C09	Consolidation of incompetent formations	197031	H01-E04	Water Treatment Includes composition e.g. anti-sludging agent, and apparatus	2010
H01-C10	Servicing E.g. cleaning deposits	197031	H01-E05	Scale Inhibition	2010
H01-C11	Testing, control operations and equipment, general	1986	H01-E	Unclassified	
H01-C12	Water control compositions For methods, see H01-D14	2005	H01-F	<b>NATURAL GAS</b>	
H01-C	Unclassified	197031	H01-F01	Field treatment and processing	197031
H01-D	<b>PRODUCING</b>		H01-F02	Liquefaction methods and equipment	197031
H01-D01	Oil-lifting equipment		H01-F	Unclassified	197031
H01-D02	Gas-lifting equipment		H01-G	<b>EXTINGUISHING OIL WELL FIRES</b>	1994
H01-D03	Pumps		H01-G01	Explosives	1994
H01-D04	Separators		H01-G02	Capping	1994
H01-D05	Marine production equipment		H01-G	General	1994
H01-D06	Waterflooding, general				
H01-D06A	. Brine flooding	1986			
H01-D06B	. Steam flooding	1986			
H01-D06C	. CO2 flooding	1994			
H01-D06D	. Polymer flooding	2002			

H01-H	WELL KILLING	2010
H01-H	General	2010
H01-P	OIL AND GAS WELL PIPES Includes pipes used during well drilling, completion and production	2010
H01-P	General	2010
H01-R	DEPLETED OIL/GAS FIELDS	2010
H01-R	General	2010
H01-X	OTHER	2010
H01-X	General Includes well tractors and protective clothing	2010

## H02 UNIT OPERATIONS

H02-A	DISTILLATION	
H02-A01	Fractional	
H02-A02	Atmospheric	
H02-A03	Azeotropic	
H02-A04	Extractive	
H02-A05	Steam	
H02-A06	Vacuum	
H02-A	Unclassified	197031
H02-B	SORPTION	
H02-B01	Molecular sieves Includes metal-organic frameworks	2006
H02-B02	Silica gel	
H02-B03	Carbon	
H02-B04	Urea	
H02-B05	Pressure swing adsorption	2002
H02-B	Unclassified	197031
H02-C	SOLVENT EXTRACTION	
H02-C01	Organic liquids	
H02-C02	Inorganic liquids	
H02-C	Unclassified	197031
H02-D	MISCELLANEOUS OPERATIONS	
H02-D01	Ion exchange processes	197031
H02-D02	Separation by adduct (urea etc.)	197031
H02-D03	Centrifugal separation	1986
H02-D04	Membrane/filter separation	1986
H02-D	Unclassified	197031

### H03 TRANSPORTATION AND STORAGE

H03-A	GATHERING LINES	
H03-A	General	
H03-B	PIPELINES	
H03-B01	Fluid loss additives	1994
H03-B02	Installing/testing pipelines	2002
H03-B03	Pipeline accessories E.g. connectors	2002
H03-B04	Repairing pipelines	2006
H03-B	General	
H03-C	TANKS CARS AND TRUCKS	
H03-C	General	
H03-D	MARINE	
H03-D	General E.g. oil tankers	
H03-E	STORAGE TANKS AND CONTAINERS	
H03-E	General	
H03-E01	Recondensation systems To prevent loss of HC, especially natural gases, to the atmosphere	2005
H03-F	UNDERGROUND STORAGE	
H03-F	General	
H03-G	Pollution control, methods and equipment	197031
H03-G	General	
H03-G01	Marine oil pollution E.g. booms, skimmers, etc.	2002
H03-G02	Soil contamination E.g. from oil spills	2002
H03-X	OTHER TRANSPORTATION AND STORAGE OF OIL AND GAS	197031
H03-X	Unclassified	
H03-X01	Transferring oil or petroleum	2005
H03-X02	Testing E.g. testing and monitoring in storage applications, such as level of stored component, tank leakage	2006

### H04 PETROLEUM PROCESSING

H04-A	TREATING	
H04-A01	Sweetening	
H04-A02	Metal contaminant removal	
H04-A03	Nitrogen contaminant removal	
H04-A04	Gum or gum former removal	
H04-A05	With acid	
H04-A06	With alkali	
H04-A07	With hydrogen E.g. hydrotreating	
H04-A08	Deasphalting	
H04-A09	Deoiling	
H04-A10	Dewaxing Includes deparaffination/dewaxing	2005
H04-A10A	Deparaffination/dehazing Scope now covered by H04-A10	2002-2004
H04-A	Unclassified	197031
H04-B	CRACKING	
H04-B01	Thermal and coking	
H04-B02	Catalytic	
H04-B03	Hydrocracking	
H04-B	Unclassified	197031
H04-C	REFORMING	
H04-C01	Thermal	
H04-C02	Catalytic	
H04-C03	Hydroforming	
H04-C	Unclassified	197031
H04-D	GASOLINE PREPARATION BY	
H04-D01	Polymerisation	
H04-D02	Alkylation	
H04-D03	Isomerisation	
H04-D	Unclassified	197031
H04-E	OTHER PROCESSES	
H04-E01	Aromatisation	
H04-E02	Biosynthesis	
H04-E03	Dehydrogenation	
H04-E04	Gasification, steam reforming	
H04-E05	Hydrocarbon synthesis	
H04-E06	Hydrogen manufacture	

H04-E07	<b>Pollution control</b> Scope is covered by H05-L+ since 197031.	
H04-E08	<b>Hydrogenation</b>	197031
H04-E09	<b>Dealkylation</b>	197031
H04-E10	<b>Town gas production</b>	197031
H04-E11	<b>Isomerisation (non-gasoline production)</b>	1994
H04-E12	<b>Dearomatisation</b>	2002
H04-E13	<b>Alkylation</b>	2002
H04-E	<b>Unclassified</b> Includes all hydrocarbon conversion procedures not specifically covered elsewhere.	
H04-F	<b>CATALYSTS</b>	
H04-F01	<b>Preparation/composition</b> This code was retired in 199701. Catalyst production is now coded in H04-F05 and composition in H04-F06.	
H04-F02	<b>General (no process specified)</b>	1977
H04-F02A	. Treating	1977
H04-F02B	. Cracking	1977
H04-F02C	. Reforming	1977
H04-F02D	. Gasoline preparation	1977
H04-F02E	. Other processes	1977
H04-F03	<b>Catalyst carriers</b>	1977
H04-F04	<b>Regeneration</b>	2002
H04-F05	<b>Catalyst production and manufacture</b>	2005
H04-F06	<b>Catalyst composition</b>	2010
H04-F	<b>Unclassified</b>	197031

## H05 REFINERY ENGINEERING

H05-A	<b>FURNACES</b>	
H05-A	<b>General</b>	
H05-B	<b>TOWERS AND EQUIPMENT THEREFOR</b>	
H05-B	<b>General</b>	
H05-C	<b>PRESSURE VESSELS</b>	
H05-C	<b>General</b>	
H05-D	<b>PIPES, FITTINGS, VALVES</b>	
H05-D	<b>General</b>	
H05-E	<b>PUMPS AND COMPRESSORS</b>	
H05-E	<b>General</b>	
H05-F	<b>FLARES</b>	
H05-F	<b>General</b>	
H05-G	<b>ELECTRICAL EQUIPMENT</b>	
H05-G	<b>General</b>	
H05-H	<b>PRIME MOVERS</b>	
H05-H	<b>General</b>	
H05-J	<b>AUTOMATIC CONTROL EQUIPMENT</b>	
H05-J	<b>General</b>	
H05-K	<b>TEST EQUIPMENT AND TEST PROCEDURES</b>	1975
H05-K	<b>General</b>	
H05-L	<b>POLLUTION CONTROL</b>	
H05-L01	<b>Air pollution</b>	197031
H05-L02	<b>Water pollution</b>	197031
H05-L03	<b>Ground pollution</b>	2005
H05-L	<b>Pollution control, general</b>	197031
H05-M	<b>QUENCHING AND HEAT EXCHANGE EQUIPMENT</b>	1986
H05-M	<b>General</b>	
H05-N	<b>REACTORS</b>	2002
H05-N	<b>General</b>	2002
H05-P	<b>CHEMICAL TREATMENT</b>	2002
H05-P	<b>General</b> E.g. coke inhibition, defoaming, descaling, etc.	2002

H05-X	OTHER REFINERY METHODS AND METHODS	1975
H05-X	Unclassified	

## H06 GASEOUS AND LIQUID FUELS

H06-A	GASEOUS FUELS	
H06-A01	(Liquefied) petroleum gases	
H06-A02	(Liquefied) natural gas	
H06-A03	Hydrogen	2002
H06-A04	<b>Biofuel gases</b> E.g. methane production by digestion or fermentation of e.g. waste organic materials	2002
H06-A05	Synthesis gas	2010
H06-A	Unclassified	197031
H06-B	LIQUID FUELS	
H06-B01	Gasoline	
H06-B02	Kerosene	
H06-B03	Jet fuels	
H06-B04	Diesel fuels	
H06-B04A	. <b>Biodiesel</b> Covers any Diesel fuel containing components manufactured from vegetable oils of e.g. waste organic materials	2005
H06-B05	Heating oils and fuel oils	
H06-B06	Liquid fuels derived from waste polymer material	2002
H06-B07	<b>Other liquid biofuels</b> Any liquid fuels produced biologically other than biodiesel	2005
H06-B08	<b>Alcohol fuels</b> Includes ethanol/methanol and alcohol-based fuels e.g. as used in Brazil	2005
H06-B09	Emulsion fuels	2006
H06-B	Unclassified	197031
H06-C	POLLUTION CONTROL	
H06-C01	Air	197031
H06-C01A	. Catalytic	
H06-C01B	. Non-catalytic	2006
H06-C02	Water	197031
H06-C03	I.C. engine, catalytic	1975
H06-C03A	. Oxidation of CO and hydrocarbons	1975

H06-C03B	. Reduction of N oxides	1975
H06-C03B1	.. Selective Catalytic Reduction (SCR) Injection of small amounts of urea and water into hot i.c. engine exhaust gas to reduce NOX production	2007
H06-C03C	. Sulfur oxides	2006
H06-C04	I.C. engine, non-catalytic	1975
H06-C04A	. By filtration	2005
H06-C05	Detection and measurement of I.C. engine exhaust gases	2002
H06-C	Unclassified	197031
H06-D	<b>ADDITIVES</b>	
H06-D01	Antioxidants, stabilisers	1986
H06-D02	Corrosion and rust inhibitors	1986
H06-D03	Anti-icing agents, detergents, dispersants	1986
H06-D04	Anti-knocking agents, combustion efficiency improvers	1986
H06-D05	Cloud/pour point depressants, fluidity improvers	1986
H06-D06	Friction reducing and antiwear agents	1986
H06-D07	Other specified, but unclassified functions	1986
H06-D08	Biocidal includes anti-slime compounds	2005
H06-D	Multifunctional and general	1986
H06-E	<b>TESTING FUELS (GASEOUS OR LIQUID)</b>	1994
H06-E	General	1994
H06-F	<b>MARKING FUELS</b>	1994
H06-F	General	1994
H06-X	<b>OTHER FUEL ASPECTS</b>	2006
H06-X01	Treatment of fuels E.g. magnetic treatment, plasma, microwave or UV irradiation etc.	2006
H06-X	General	2006

## H07 LUBRICANTS AND LUBRICATION

H07-A	<b>SYNTHETIC</b>	
H07-A	General, including lubricants of non-petroleum origin	
H07-A01	Lubes of vegetable origin	2005
H07-A02	Oxygen-containing lubricants – general includes (poly)ethers	2005
H07-A02A	. Carboxylic esters	2007
H07-A02B	. Polyalkylene glycols (PAGS), polyalkylene oxides, polyoxyalkylenes	2007
H07-A03	Olefin polymers, Group IV oils polyalphaolefins (PAO's)	2005
H07-A04	Hydrocarbons e.g. alkyl benzenes	2005
H07-B	<b>MINERAL</b>	
H07-B	General	
H07-B01	Hydroprocessed or Hydrocracked Mineral Oils Extremely High Viscosity Index XHVI oils. Group II lubricants and Group III lubricants are by definition hydroprocessed / hydrocracked oils of specified viscosity ranges.	2005
H07-C	<b>GREASES</b>	
H07-C	General	
H07-D	<b>SOLID OR SEMISOLID LUBRICANTS</b>	
H07-D	General	
H07-D11	Refrigeration lubricants Replaced by H08-D11. All H07-D11 coded documents will be corrected to H08-D11.	2005-2007
H07-E	<b>LUBRICANTS USED IN THE GAS OR VAPOUR PHASE</b>	
H07-E	General	
H07-F	<b>LUBRICATION OF MACHINES</b> including lubricating devices	
H07-F	General	
H07-G	<b>ADDITIVES</b> Includes additives used for speciality products given under H08-D.	
H07-G01	Antioxidants, stabilisers	
H07-G02	Corrosion and rust inhibitors	
H07-G03	Detergents, dispersants	
H07-G04	Extreme pressure	

H07-G05	Pour depressants	
H07-G06	VI improvers	
H07-G07	Lubricity	
H07-G08	Multifunctional	
H07-G09	Other specified, but unclassified functions	
H07-G10	Biocidal	2006
H07-G	General	
H07-H	USED LUBE OILS AND SPECIALITY PRODUCTS, RECOVERY OR TREATMENT	197031
H07-H	General	
H07-J	TESTING OILS	2002
H07-J	General	2002
H07-K	MARKING OILS	2002
H07-K	General	2002
H07-L	LUBRICANT PRODUCTION	2006
H07-L	General	2006
H07-X	OTHER LUBRICATION ASPECTS	197031
H07-X	Unclassified	

## H08 OTHER PETROLEUM PRODUCTS

H08-A	WAXES	
H08-A	General	
H08-B	ASPHALT	
H08-B	General e.g. bitumen	
H08-C	RESIDUUM	
H08-C	General	
H08-D	SPECIALITY PRODUCTS	
H08-D01	White oils	
H08-D02	Antifreeze	
H08-D03	Solvents	
H08-D04	Cutting oils, emulsions (including those of non-petroleum origin)	
H08-D05	Hydraulic fluids (including those of non-petroleum origin)	
H08-D06	Textile oils	
H08-D07	Metalworking fluids Until 200601, code entitled 'Rolling oils'	2006
H08-D08	Electrical insulating oils (including those of non-petroleum origin)	1986
H08-D09	Heat transfer fluids	1986
H08-D10	For lubrication of electrical components	2005
H08-D11	Refrigeration lubricants Replaces H07-D11. All H07-D11 coded documents will be corrected to H08-D11. See also J07-A09.	2007
H08-D	Speciality oils, unclassified/general	
H08-E	OTHER PRODUCTS	
H08-E01	Carbon black	197031
H08-E01A	. Activated carbon	2002
H08-E02	Petroleum coke	197031
H08-E03	Proteins	197031
H08-E04	Fuel cells Scope covered by L03-E04 and X16-C codes	197031-2005
H08-E05	Surfactants, detergents	197031
H08-E06	(Unrefined) products used as binders	197031



H08-E07	Emulsifiers, foam regulators and wetting agents	2005
H08-E10	Biocidal	2005
H08-E	Other products, general/unclassified	197031

## H09 FUELS NOT OF PETROLEUM ORIGIN

H09-A	DESTRUCTIVE DISTILLATION OF CARBONACEOUS MATERIALS FOR GAS, TAR, COKE ETC.	
H09-A01	Coal hydrogenation, liquefaction, etc.	1975
H09-A01A	. In situ (underground) treatment of coal (combustion, liquefaction, etc.)	1975
H09-A02	Coke ovens, appts., operation, etc.	1975
H09-A02A	. Metallurgical coke production e.g. coke quenching.	1975
H09-A02B	. Handling and charging equipment	1986
H09-A	General and Unclassified	
H09-B	WORKING UP OF PEAT, PRODUCTION OF PYROLIGNEOUS ACID	
H09-B	General	
H09-C	PRODUCER GAS, WATER GAS, SYNTHESIS GAS PRODUCTION FROM SOLID CARBONACEOUS MATERIALS	
H09-C	General e.g. gasification	
H09-D	TREATMENT OF GASES CONTAINING CO	
H09-D	General e.g. coke oven gas treatment	
H09-E	ACETYLENE PRODUCTION BY WET METHODS including purification of fuels containing acetylene	
H09-E	General	

H09-F	OTHER FUELS AND THEIR TREATMENT including briquettes, firelighters, solidified fluid fuels general	
H09-F01	Briquettes, firelighters, solidified fluid fuels	1986
H09-F02	Industrial waste treatment	1986
H09-F03	Municipal and agricultural waste treatment	1986
H09-F04	Pyrolysis and catalytic treatment of polymers and waste plastic e.g. to produce fuel oils and gases	2002
H09-F	General	
H09-G	COAL-FUEL SLURRIES included in H09-X prior to 198601	
H09-G01	Oil-coal slurries	1986
H09-G02	Aqueous-coal slurries	1986
H09-G03	Additives	1986
H09-G	General	1986
H09-H	OTHER TREATMENT OF COAL	
H09-H01	Deashing	1986
H09-H02	Desulphurisation	1986
H09-H03	Coal additives	2006
H09-H	General and unclassified	1986
H09-X	OTHER NON-PETROLEUM FUELS AND PROCESSING	
H09-X	Unclassified	



## J:

### CHEMICAL ENGINEERING

J01	Separation
J02	Mixing, Crushing, Spraying
J03	Electrochemical, Processes, Electrophoresis
J04	Chemical/Physical Processing/Apparatus
J05	Boiling and Boiling Apparatus
J06	Storing/Distributing Gases/ Liquids
J07	Refrigeration, Ice, Liquefaction/ Solidification
J08	Heat Transfer and Drying
J09	Furnaces, Kilns, Ovens, Retorts



## J: CHEMICAL ENGINEERING

Code commenced at CPI week 197031.

### J01 SEPARATION

J01-A	EVAPORATION, DISTILLATION, SUBLIMATION	
J01-A01	Evaporation	
J01-A02	Liquid-gas mass transfer, general	
J01-A02A	. Distillation	1972
J01-A02A1	.. Extractive distillation	2002
J01-A02A2	.. Distillation columns	2002
J01-A02A3	.. Column fittings, packings, plates, trays	2002
J01-A02A4	.. Other distillation apparatus	2002
J01-A02B	. Distillation methods and apparatus	2005
J01-A03	Condensation of vapours	
J01-A04	Sublimation	
J01-A	Unclassified	
J01-B	CRYSTALLISATION	
J01-B	General	
J01-C	SOLVENT EXTRACTION, DIALYSIS, OSMOSIS	
J01-C01	Solvent extraction (liquid-liquid extraction only)	
J01-C02	Displacing liquid by means of another fluid	
J01-C03	Semi-permeable membrane separation processes	
J01-C03A	. By reverse osmosis	1986
J01-C03B	. By dialysis	1986
J01-C03B1	.. By haemodialysis	1986
J01-C04	Micro-filters, ultra-filters and nano-filters	2002
J01-C	Unclassified	

J01-D	TREATING LIQUIDS	
J01-D01	With adsorbents, general	
J01-D01A	. Chromatography	1972
J01-D02	(De)gasification of liquids	
J01-D03	Emulsion breaking, coagulation	1972
J01-D04	Ion exchange	1972
J01-D04A	. Regeneration of ion exchangers	1994
J01-D05	Removal of contaminant by complexing or chelation	1994
J01-D06	Catalytic decomposition	2002
J01-D07	Biological treatment	2005
J01-D	Unclassified	
J01-E	TREATING GASES AND/OR VAPOURS	
J01-E01	Recovering volatile solvent vapours from gases Includes drying of gases	
J01-E01A	. Dehumidification	2006
J01-E01B	. Deodorization	2006
J01-E02	Treating waste gases, general	1972
J01-E02A	. By wet scrubbing	1972
J01-E02A1	.. Characterised by acidic/alkaline scrubbing liquid	1977
J01-E02A2	.. Characterised by redox/complexing scrubbing liquid	1977
J01-E02A3	.. Process control and arrangements	1977
J01-E02B	. With solid adsorbents	1972
J01-E02B1	.. Molecular sieves	2006
J01-E02B2	.. Metal-organic frameworks	2006
J01-E02C	. With membranes or ion exchangers	1977
J01-E02C1	.. Ion transport membranes	2005
J01-E02D	. By catalytic methods	1977
J01-E02E	. Treating waste gases using dry reactive powder e.g. Ca(OH) <sub>2</sub>	1994
J01-E02F	. Solid reagent complexing with gas	1994

J01-E02G	. Ammonia	1994
J01-E02H	. By other means e.g. plasma, bacterial or centrifugal method	1994
J01-E02H1	.. Using plasma	2005
J01-E02H2	.. Centrifugal methods	2005
J01-E02H3	.. By biological methods	2005
J01-E02H4	.. By combustion	2006
J01-E02H5	.. Using ozone	2006
J01-E02I	. Treating fuels with additives to reduce evolution of SO <sub>x</sub> +NO <sub>x</sub>	1994
J01-E03	Gas separation, general	1972
J01-E03A	. Gas chromatography	1972
J01-E03B	. By wet scrubbing	1986
J01-E03C	. Using solid adsorbents	1986
J01-E03C1	.. Molecular sieves	2006
J01-E03C2	.. Metal-organic frameworks	2006
J01-E03D	. By pressure swing adsorption	1986
J01-E03E	. Using semi-permeable membrane	1986
J01-E03F	. By catalytic methods	1986
J01-E03G	. Claus plant processes with removal of S	1994
J01-E03H	. By biological methods	2005
J01-E	Unclassified	

J01-F	SEPARATION OF SUSPENDED PARTICLES FROM LIQUIDS	
J01-F01	By sedimentation Includes flotation techniques for clarifying liquids, precipitation or flocculation	
J01-F02	By filtration processes	
J01-F02A	. Gravity filters; filter presses; pressure filters	
J01-F02B	. Cartridge filters; ultra filters	
J01-F02C	. Filters with mobile filter elements Has priority over J01-F02A and -F02B	
J01-F02D	. Filtering devices e.g. trivial uses, such as bath tubs or swimming pool filters	
J01-F02E	. Filtering of magnetisable materials	1994
J01-F02E1	.. Filtering of liquids by applying electrical charge	1994
J01-F02X	. For filtration of specific substances May be used with other J01-F codes if specific method is claimed	2006
J01-F02X1	.. Water	2006
J01-F02X2	.. Blood	2006
J01-F02X3	.. Oil	2006
J01-F02X4	.. Fuel	2006
J01-F03	By centrifugal processes	
J01-F04	Dewatering e.g. sludge by compression between belts	1994
J01-F	Unclassified	

J01-G	SEPARATION OF DISPERSED PARTICLES FROM GASES/VAPOURS		J01-J	SEPARATION OF ISOTOPES	
J01-G01	Pre-treatment of gas or vapour		J01-J	General	
J01-G02	By gravity, inertia, centrifugal force		J01-K	SOLID/SOLID SEPARATION	
J01-G03	By filtration		J01-K01	Solid separation using liquids, pneumatic tables, jigs	
J01-G03A	. Regeneration/cleaning of filters	1977	J01-K02	Magnetic or electrostatic separation	
J01-G03B	. Especially designed for waste gases	1977	J01-K03	Flotation; differential sedimentation	
J01-G03C	. For air inflow e.g. vehicle air intake, clean room	2006	J01-K04	Sieving, screening, etc. (by gas currents). etc.	
J01-G04	Electrostatic precipitation	1977	J01-K	Unclassified Includes solid-solid separation by leaching	
J01-G05	(De)gassing powders and other solids	1972	J01-L	CENTRIFUGAL APPARATUS	
J01-G06	Wet scrubbing Only for removal of particulates from gas, otherwise consider J01-E02A	2006	J01-L01	Centrifuges	
J01-G09	Other methods	2006	J01-L02	Free vortex flow apparatus; cyclones	
J01-G	Unclassified		J01-L	Unclassified	
J01-H	FILTERING MATERIALS		J01-X	OTHER SEPARATION PROCESSES AND APPLICATIONS	
J01-H01	Regenerating filters	1994	J01-X	General and unclassified	
J01-H02	Filtering materials	2005	J01-X01	Contaminants and their removal methods e.g. for soil	2006
J01-H02A	. Filter materials for liquids treatment	2005	J01-X01A	. Removal of organic contaminants	2005
J01-H02B	. Filter materials for gases treatment	2005	J01-X01B	. Removal of inorganic contaminants	2005
J01-H02C	. With antibacterial effect Replaces J01-H03. All J01-H03 coded documents will be corrected to J01-H02C	2007	J01-X01C	. Removal by biological methods	2005
J01-H03	With antibacterial effect Replaced by J01-H02C. All J01-H03 coded documents will be corrected to J01-H02C	2005-2006	J01-X02	Separation of racemates	2005
J01-H	General				

**J02 MIXING, CRUSHING, SPRAYING**

J02-A	MIXING, DISPERSING ETC.	
J02-A01	Mixing processes	
J02-A02	Mixing apparatus, general	
J02-A02A	. Flow mixers	1972
J02-A02B	. Rotary mixers	1972
J02-A02C	. Mixer accessories	2002
J02-A03	Emulsification/dispersion Until 200601, code entitled 'Emulsifying or dispersing agents'	2006
J02-A03A	. Processes	2006
J02-A03B	. Apparatus	2006
J02-A03C	. Agents	2006
J02-A	Unclassified	
J02-B	CRUSHING, PULVERISING DISINTEGRATING	
J02-B01	Plant in general	
J02-B02	Processes in general	
J02-B03	Accessories	
J02-B	Unclassified	
J02-C	SPRAYING ATOMISING, APPLYING LIQUIDS TO SURFACES	
J02-C01	Spraying, atomising; nozzles, in general	
J02-C02	Applying (semi-) liquids to surfaces, in general	
J02-C	Unclassified	
J02-X	OTHER MIXING, CRUSHING AND SPRAYING Includes dosing and dispensing devices	
J02-X	Unclassified	

**J03 ELECTROCHEMICAL PROCESSES,  
ELECTROPHORESIS**

J03-A	ELECTROCHEMICAL PROCESSES OR APPARATUS	
J03-A01	For ozone generation	2006
J03-A	General e.g. ozone generation	
J03-B	ELECTROLYTIC PROCESSES OR APPARATUS	
J03-B01	Electrodes Including manufacture and coating	1972
J03-B02	Cell design	1972
J03-B03	Separators	1977
J03-B03A	. Ion exchange membranes based on fluorocarbon polymers	1986
J03-B04	Alkali halide electrolysis	1986
J03-B09	General electrolytic processes	2005
J03-B	General and unclassified	
J03-C	ELECTROPHORESIS	
J03-C	General	
J03-D	ELECTRODIALYSIS	
J03-D	General	1972
J03-D01	Electro-osmosis	1994
J03-X	OTHER ELECTROCHEMICAL METHODS	
J03-X	Unclassified	



## J04 CHEMICAL/PHYSICAL PROCESSES/APPARATUS

J04-A	COLLOID CHEMISTRY, ETC.	
J04-A01	Catalysis processes and apparatus Use J04-E+ from 197701	1970-1976
J04-A02	Catalysts Use J04-E+ from 197701	1970-1976
J04-A03	Colloid chemistry For production of nanoparticles (sols) see J04-F02A	
J04-A04	Single crystals	
J04-A05	Granulation, pelleting	
J04-A06	Encapsulation	
J04-A07	Powder coatings For general coatings, consider M13-H if formed on metal, or L02-J03 if involving ceramics.	
J04-A	Unclassified	
J04-B	LABORATORY APPARATUS AND METHODS	
J04-B01	Analytical methods/equipment, general	
J04-B01A	. Spectral Includes techniques such as NMR, ESR and mass spectrometry	1972
J04-B01A1	.. Mass spectrometry	2006
J04-B01A2	.. Optical spectroscopy Includes cellular imaging	2006
J04-B01B	. Specific reactions and reagents	1972
J04-B01B1	.. Sugar e.g. for diabetes monitoring	2005
J04-B01B2	.. For alcohol	2006
J04-B01C	. Chromatography	1977
J04-B01C1	.. Thin Layer Chromatography (TLC) See also S03-E09C3	2005
J04-B01C2	.. High Performance Liquid Chromatography (HPLC) See also S03-E09C5	2005
J04-B01C5	.. Gas Chromatography (GC) See also S03-E09C1	2005
J04-B01C5A	... GC-MS	2006

J04-B02	Lab-on-chip (LOC) See also S03-H01 codes	2005
J04-B03	Detection and analysis of nucleic acids, proteins and amino acids See also S03-E14H codes	2005
J04-B04	Micro analysis Includes microfluidic analysis. May be used with other J04-B codes, and S03 codes likely	2006
J04-B	Laboratory apparatus, general	
J04-C	TEST, CONTROL AND SAMPLING, INDUSTRIAL AND LABORATORY	
J04-C01	Sampling	
J04-C02	Investigation by properties E.g. determination of pressure, temperature, concentration, pH, etc.	
J04-C02A	. pH Monitoring See also S03-F10 codes	2005
J04-C02B	. Electrical e.g. resistance, conductivity, capacitance etc. See also S03-E02 codes. Until 200601, code entitled to as 'Conductivity'	2006
J04-C02C	. Optical e.g. absorption, fluorescence	2006
J04-C02D	. Mechanical properties, e.g. creep resistance	2007
J04-C03	Investigation by method E.g. monitoring of reactions	
J04-C04	Investigation by material	
J04-C04A	. Gas sensors See also S03-E02, S03-E03, S03-E14P codes	2005
J04-C	General and unclassified	
J04-D	FLUIDISED BED APPARATUS	1972-2002
J04-D	General Not used from 2002 Wk01; scope is now covered by J04-E07A and J04-X03A	1972-2002

<b>J04-E</b>	<b>CATALYSIS</b> See also J04-A, and N codes for catalysts, catalytic processes and applications	
<b>J04-E01</b>	<b>Catalytic processes</b>	1977
<b>J04-E02</b>	<b>Apparatus for catalytic processes</b> Not used from 2002 Wk01; scope is now covered by J04-(E06-09)	1977-2002
<b>J04-E03</b>	<b>Catalyst supports</b>	1977
<b>J04-E04</b>	<b>Catalysts</b>	1977
<b>J04-E04A</b>	. <b>Redox</b>	1977
<b>J04-E04B</b>	. <b>(De)hydrogenation</b>	1977
<b>J04-E04C</b>	. <b>Photocatalysts</b>	2005
<b>J04-E04D</b>	. <b>Electrocatalyst</b> e.g. for electrode catalysts, for use in electrolyzer, fuel cell etc.	2006
<b>J04-E05</b>	<b>Regeneration/recovery</b>	1977
<b>J04-E06</b>	<b>Reactors – general or unclassified</b>	2002
<b>J04-E07</b>	<b>Apparatus for gas phase reactions</b>	2002
<b>J04-E07A</b>	. <b>Fluidized or moving beds, risers</b>	2002
<b>J04-E07B</b>	. <b>Fixed beds</b>	2002
<b>J04-E07C</b>	. <b>Tubular, tube bundles</b>	2002
<b>J04-E08</b>	<b>Apparatus for liquid, gas/liquid processes</b>	2002
<b>J04-E08A</b>	. <b>Apparatus for homogeneous phases, solutions</b>	2002
<b>J04-E08B</b>	. <b>Columns; counter-current reactions</b>	2002
<b>J04-E08B1</b>	.. <b>Apparatus for reactive or catalytic distillation</b>	2002
<b>J04-E09</b>	<b>Other apparatus for catalytic processes</b>	2002
<b>J04-E09A</b>	. <b>Waste treatment apparatus</b>	2005
<b>J04-E09B</b>	. <b>For sensor applications</b>	2006
<b>J04-E09C</b>	. <b>Photocatalytic apparatus</b> See J04-E04C for photocatalysts per se	2006
<b>J04-E10</b>	<b>Testing of catalysts and devices</b>	2006
<b>J04-E11</b>	<b>Catalyst production</b>	2007

<b>J04-E</b>	<b>Unclassified</b>	1977
<b>J04-F</b>	<b>MICROSCALAR PROCESSES</b>	
<b>J04-F01</b>	<b>Microprocesses</b> See J04-X04 for microreactors	2006
<b>J04-F02</b>	<b>Nanostructure production</b> See L02-H04 if carbon is involved	2006
<b>J04-F02A</b>	. <b>Nanoparticles</b>	2006
<b>J04-F02A1</b>	.. <b>Composite particles</b> Includes coated particles	2006
<b>J04-F02B</b>	. <b>Other regular forms</b> e.g. Nanotubes, nanorods, nanowhiskers	2006
<b>J04-F02C</b>	. <b>Nanofilms</b>	2006
<b>J04-F</b>	<b>Unclassified</b>	
<b>J04-X</b>	<b>OTHER CHEMICAL METHODS</b> Used for all processes and apparatus of chemical interest with no specific application elsewhere in CPI	
<b>J04-X01</b>	<b>Reactors for plasma processes</b>	1994
<b>J04-X02</b>	<b>Forming films by Langmuir-Blodgett processes</b>	1994
<b>J04-X03</b>	<b>Reactors for non-catalytic chemical processes</b>	2002
<b>J04-X03A</b>	. <b>Fluidised bed apparatus</b>	2006
<b>J04-X04</b>	<b>Miniaturised reaction apparatus</b> Includes microfluidic devices, MEMS devices, see also relevant U12-B03F codes for MEMS. See J04-F01 for microprocesses.	2002
<b>J04-X</b>	<b>Unclassified</b>	

## J05 BOILING AND BOILING APPARATUS

<b>J05-A</b>	<b>BOILING AND BOILING APPARATUS</b>
<b>J05-A</b>	<b>General</b>

## J06 STORING/DISTRIBUTING GASES/ LIQUIDS

J06-A	GAS HOLDERS OF VARIABLE CAPACITY
J06-A	General
J06-B	VESSELS FOR LIQUIDS OR COMPRESSED, LIQUEFIED OR SOLIDIFIED GASES, GAS-HOLDERS, DECANTATION AND VAPORISATION OF LIQUEFIED OR SOLIDIFIED GASES
J06-B01	Pressure vessels
J06-B02	Vessels not under pressure
J06-B03	Filling vessels with gases
J06-B04	Discharging gases from pressure vessels
J06-B05	Discharging gases from vessels not under pressure
J06-B06	Gas solvents and gas adsorbents
J06-B06A	. For batteries and fuel cells For supplying hydrogen specifically for fuel cells
	2005
J06-B06B	. For vehicle fuel tanks For H <sub>2</sub> /CH <sub>4</sub> powered IC engines (i.e. not fuel cells)
	2005
J06-B06C	. Gas adsorbents
	2006
J06-B06C1	.. Molecular sieves
	2006
J06-B06C2	.. Metal-organic frameworks
	2006
J06-B07	Vessel details
J06-B08 Control	Includes controlling flow rates, thermal energy management, safety arrangements, etc.
	2007
J06-B	General and unclassified
J06-C	PIPE SYSTEMS, PIPELINES
J06-C01	Pipeline systems; pipe construction
J06-C02	Supervising or controlling operations
J06-C	General and unclassified

## J07 REFRIGERATION, ICE, LIQUEFACTION/ SOLIDIFICATION

J07-A	REFRIGERATION MACHINES, PLANTS OR SYSTEMS, COMBINED HEATING AND REFRIGERATION SYSTEMS
J07-A01	Compression type
J07-A02	Sorption type
J07-A03	Other types having single mode of operation, combination of heating and refrigeration; special energy sources Includes heat pumps
J07-A04	Components
J07-A05	Arrangements
J07-A06	Control and safety devices
J07-A07	Air conditioners Includes humidifiers
	1972
J07-A08	Refrigeration media
	1972
J07-A09	Lubricants for refrigeration media See also H08-D11
	1994
J07-A10	Refrigeration and a/c sealants Injecting into systems to seal pinholes. Includes e.g. organosilanes.
	2007
J07-A	General and Unclassified
J07-B	FREEZING OF (SEMI)LIQUIDS
J07-B01	Ice production
J07-B02	Ice or snow production for special purposes
J07-B03	Ice working and distribution
J07-B	General and unclassified
J07-C	REFRIGERATORS, COOLING AND FREEZING APPARATUS
J07-C01	Devices not associated with refrigerating machinery
J07-C02	Devices associated with refrigerating machinery
J07-C03	Structural parts of general application, etc.
J07-C	General and unclassified e.g. domestic use, such as cold stores and cold boxes
J07-D	GAS LIQUEFACTION, SOLIDIFICATION OR SEPARATION BY PRESSURE OR COLD
J07-D01	Liquefying or solidifying gases
J07-D02	Separating gases by liquefaction or solidification

J07-D03	Cold exchangers or accumulators
J07-D	General and unclassified

## J08 HEAT TRANSFER AND DRYING

J08-A	STEAM OR VAPOUR CONDENSERS
J08-A01	Steam or vapour separated from coolant by walls
J08-A02	Steam or vapour comes in direct contact with coolant
J08-A03	Employing combination of above two; other condensers
J08-A04	Combinations of two or more condensers
J08-A05	Auxiliary systems, arrangements or devices
J08-A06	Controlling arrangements especially for condensers
J08-A	General and unclassified
J08-B	DIRECT-CONTACT (NON-INTERACTIVE) HEAT-EXCHANGERS
J08-B01	Direct-contact trickle coolers e.g. cooling towers
J08-B02	Other direct-contact heat-exchange apparatus
J08-B	General and unclassified
J08-C	HEAT-EXCHANGERS WITHOUT DIRECT CONTACT
J08-C01	Having stationary conduit assemblies for one medium only, the media contacting different sides of conduit wall
J08-C02	As above, but stationary conduits for both media
J08-C03	Having moving conduit assemblies
J08-C04	Employing intermediate heat-transfer media or bodies Includes heat pipes
J08-C	General and unclassified
J08-D	HEAT TRANSFER APPARATUS, DETAILS OF GENERAL APPLICATIONS
J08-D01	Elements for heat-exchangers
J08-D02	Preventing deposits or corrosion
J08-D03	Special features
J08-D04	Modifying heat transfer
J08-D05	Control arrangements
J08-D06	Heat transfer media
	1972
J08-D07	Geothermal heat transfer
	1994
J08-D08	Heat exchange from exhaust gases
	1994

**J08-D**      **General and unclassified**  
Includes solar heat collectors not codable elsewhere

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**J08-E**      **HEAT-EXCHANGER FOR CLEANING**  
**J08-E01**      **Appliances for cleaning**  
**J08-E02**      **Processes for cleaning**  
**J08-E03**      **Details of cleaning**  
**J08-E**      **General and unclassified**

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**J08-F**      **DRYING PROCESSES**  
**J08-F01**      **Preliminary treatment of solids/objects to aid drying**  
**J08-F02**      **Drying solids with application of heat**  
**J08-F03**      **Drying solids without application of heat**  
**J08-F04**      **Freeze drying**  
                  e.g. sublimation drying

1972

**J08-F05**      **Compression drying**

2007

**J08-F**      **General and Unclassified**

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**J08-G**      **DRYING MACHINES AND APPARATUS**  
**J08-G01**      **Articles at rest or locally agitated**  
**J08-G02**      **With non-progressive movement**  
**J08-G03**      **With progressive movement**  
**J08-G04**      **Combination of at least two of above kinds**

**J08-G05**      **Rotary dryers**

1972

**J08-G06**      **Spray dryers**

1972

**J08-G07**      **Compression dryers**

2007

**J08-G**      **General and unclassified**

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**J08-H**      **DRYING, GENERAL APPLICATIONS**  
**J08-H01**      **Drying using air or gas currents**  
**J08-H02**      **Through air drying**

2007

**J08-H**      **General and unclassified**

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## **J09      FURNACES, KILNS, OVENS, RETORTS**

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**J09-A**      **FURNACE CONSTRUCTION**  
Excluding processes therein

**J09-A01**      **Furnaces with stationary charge**

**J09-A02**      **Stationary furnaces with mechanically-moved charge**

**J09-A03**      **Rotary furnaces**

**J09-A04**      **Open sintering apparatus**

**J09-A**      **General and unclassified**

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**J09-B**      **FURNACE ACCESSORIES**

**J09-B01**      **Construction features**

**J09-B01A**      **. Refractories**

2002

**J09-B02**      **Handling and support charge**  
e.g. rams, screw feeders, etc.

**J09-B03**      **Preheating charge; cooling; using waste heat**

**J09-B04**      **Control and safety devices**

**J09-B**      **General and unclassified**

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**J09-C**      **INCINERATION AND OTHER WASTE DISPOSAL METHODS**  
Includes disposal of waste gases, liquids and solids not codable elsewhere

1975

**J09-C**      **General**

**J09-C01**      **Disposal of waste other than by incineration**

1994

**J09-C01A**      **. Recycling of waste**

2006

**J09-C01B**      **. Fermentation of waste**  
e.g. for compost. Consider H09-F code if fermentation for fuel, and D05 for details

2006

**J09-C02**      **By incineration**

2005

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**J10-A**      **STORAGE OF WASTES IN LANDFILLS**

**J10-A**      **Storage of wastes in landfills**

1994



## K: NUCLEONICS, EXPLOSIVES, PROTECTION

K01	Firefighting
K02	Protection, Breathing Apparatus
K03	Explosive Charges, Blasting
K04	Explosives, Matches
K05	Nuclear Reactors
K06	Nuclear Power Plant
K07	Health Physics
K08	Nucleonics, X-Ray Techniques, etc.
K09	Applications





## K: NUCLEONICS, EXPLOSIVES, PROTECTION

Code commenced at CPI 197031.

### K01 FIREFIGHTING

K01-A	FIREFIGHTING, FIRE-EXTINGUISHING COMPOSITIONS	
	Does not include flame retardants	

K01-A	General	
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### K02 PROTECTION, BREATHING APPARATUS

K02-A	PROTECTION AGAINST NBC AGENTS	
K02-A	General	
K02-A01	Chemical	2005
K02-A02	Biological	2005
K02-A03	Nuclear	2005
K02-A04	Detection and analysis of NBC agents	2006

K02-B	BREATHING APPARATUS (CHEMICAL AGENTS ONLY)	
K02-B	General	

### K03 EXPLOSIVE CHARGES, BLASTING

Covers physical and mechanical aspects of explosives and ammunition

K03-A	EXPLOSIVE CHARGES, AMMUNITION, MISSILES, FUSES	
K03-A01	Cartridge, shell, bomb and mine construction, filling and manufacture	1972
K03-A02	Projectiles and warheads	1972
K03-A02A	. Lethal projectiles e.g. bullets, missiles	2006
K03-A02B	. Non-lethal projectiles e.g. plastic baton rounds, tranquilizer delivery systems, paintballs, immobilising weapons	2006
K03-A03	Arming, fusing, safety mechanisms	1972
K03-A04	Decommissioning of ammunition	2006
K03-A	Unclassified	
K03-B	BLASTING	
K03-B	General	
K03-X	EXPLOSIVE CHARGES	
K03-X	General	

**K04 EXPLOSIVES, MATCHES**

<b>K04-A</b>	<b>EXPLOSIVES (CHEMICAL ASPECTS)</b> Use K04-E+, K04-F+ and K04-G+ from 198601.	1970-1985
<b>K04-A01</b>	<b>Based on inorganic nitrates</b>	1970-1985
<b>K04-A02</b>	<b>Based on (per)chlorates</b>	1970-1985
<b>K04-A03</b>	<b>Sprengel-type</b>	1970-1985
<b>K04-A04</b>	<b>Manufacture and treatment</b>	1970-1985
<b>K04-A</b>	<b>Unclassified</b>	1970-1985
<b>K04-B</b>	<b>DETONATORS, PYROPHORIC COMPOSITIONS</b>	
<b>K04-B01</b>	Detonating or primer compositions; (non)-electric detonators; primers; fuses, blasting-caps, and accessories	
<b>K04-B02</b>	Chemical contact igniters; chemical lighters; pyrophoric compositions; flints	
<b>K04-B</b>	<b>Unclassified</b>	
<b>K04-C</b>	<b>FIREWORKS, SMOKE GENERATION, INCENDIARY AND GAS ATTACK COMPOSITIONS, GENERATION OF GAS FOR BLASTING OR PROPULSION</b>	
<b>K04-C01</b>	<b>Rocket fuels, propellants</b>	1972
<b>K04-C02</b>	<b>Gas generators</b> e.g. for automotive air bags	2006
<b>K04-C</b>	<b>Others</b> Includes chemical inflation of liferafts, etc.	
<b>K04-D</b>	<b>MATCHES</b> Includes matchbox making machinery, etc.	
<b>K04-D</b>	<b>General</b>	
<b>K04-E</b>	<b>Explosives (chemical aspects)</b> See K04-A+: prior to 198601	
<b>K04-E01</b>	<b>Emulsion, water gel, slurry explosives, general + unclassified</b>	1986
<b>K04-E01A</b>	. Based on nitrate oxidiser	1986
<b>K04-E01A1</b>	.. ANFO	1986
<b>K04-E01B</b>	. Based on (per)chlorate oxidiser	1986
<b>K04-E02</b>	<b>Organic nitro compound-containing explosives</b> Nitrocellulose, nitroglycerine, nitroglycol, TNT, etc. but excluding propellants containing NG; see K04-C01	1986

<b>K04-E03</b>	<b>Explosives containing inorganic or organometallic compounds</b> Including lead azide, lead styphnate, etc	1986
<b>K04-E04</b>	<b>Promoters, enhancers and regulatory sequences</b>	1986
<b>K04-E</b>	<b>General</b>	1986
<b>K04-F</b>	<b>EXPLOSIVES MANUFACTURE/ TREATMENT</b> See K04-A04 prior to 198601	
<b>K04-F</b>	<b>Explosives treatment, general +unclassified</b>	1986
<b>K04-F01</b>	<b>Explosives manufacture</b>	2002
<b>K04-F02</b>	<b>Explosives disposal</b>	2002
<b>K04-F03</b>	<b>Explosives detection</b> E.g. in luggage	2002
<b>K04-G</b>	<b>NOVEL ADDITIVES FOR EXPLOSIVE COMPOSITIONS</b> (Sensitisers, stabilisers, density control agents, etc.) see K04-A prior to week 198601	
<b>K04-G</b>	<b>General</b>	1986

**K05 NUCLEAR REACTORS**

K05-A	REACTOR PROCESSES	
K05-A01	Fast fission	
K05-A02	Thermal	
K05-A02A	. Gas-cooled	
K05-A02B	. Water-cooled	
K05-A02C	. Liquid metal cooled	
K05-A03	Nuclear fusion reactors	1986
K05-A03A	. Plasma containment	1986
K05-A03B	. Fusion targets (fuel)	1986
K05-A03C	. Constructional features Including blanket arrangements	1986
K05-A	Unclassified Including controlled fusion reactors prior to 198601	
K05-B	REACTOR COMPONENTS AND ACCESSORIES	
K05-B01	Pressure vessels	
K05-B02	Shielding	
K05-B03	Coolants, general	
K05-B03A	. Liquid metal coolants	1972
K05-B04	Fuel elements - general	
K05-B04A	. Chemical processes; enrichment of U Includes some extraction of U, Pu, etc. from their ores	1972
K05-B04B	. Fuel element construction	1972
K05-B05	Moderators, general	
K05-B05A	. Heavy water; enrichment, deuterium production	1972
K05-B06	Control and mechanisms, general	
K05-B06A	. Neutron flux control, control rods, general	1972
K05-B06A1	.. Shutdown and start-up procedures	1986
K05-B06A2	.. Emergency control	1986
K05-B06B	. Measurement/control of coolant flow	1986
K05-B06C	. Defective fuel rod location/ detection	1986

K05-B06D	. Measurement of other operating parameters	1986
K05-B07	<b>Accessories</b> Covers accessories of general or unspecified application; specific accessories are coded according to their use under a K05-B: code	
K05-B07A	. Fuel rod handling/transfer	1986
K05-B07B	. Used fuel storage facilities	1986
K05-B07C	. Waste removal/treatment e.g. desalting condensate	1986
K05-B07D	. Servicing/maintenance apparatus	1986
K05-B07E	. Cables, piping, connectors	1986
K05-B07E1	.. Valves	2002
K05-B07F	. Pumps	1986
K05-B07G	. Other components	1986
K05-B07J	. Inspection apparatus	2006
K05-B10	Materials for reactors and components	2005
K05-B	Unclassified	

## K06 NUCLEAR POWER PLANT

K06-A	STEAM RAISING PLANT
K06-A	General
K06-B	HEAT EXCHANGERS
K06-B	General
K06-C	RECOVERY OF FUEL, ETC.
K06-C	General
K06-X	OTHER NUCLEAR PLANT ASPECTS Includes thermoelectric converters
K06-X	General

## K07 HEALTH PHYSICS

K07-A	PROTECTIVE MEASURES, MONITORING, SHIELDING, CLOTHING ETC.
K07-A01	Personal dosimeters
	1972
K07-A01A	. Industrial monitoring
	2002
K07-A02	Shielding, general
	1986
K07-A02A	. Transport/storage containers
	1994
	<i>Previous code(s): K07-A02</i>
K07-A02B	. Fall-out shelters
	1994
K07-A02C	. Shielding plants and equipment
	2002
K07-A02D	. Shielding personnel
	2002
K07-A03	Decontamination of industrial sites
	1986
K07-A03A	. Decontamination of personnel/ clothing
	2002
K07-A	Others
K07-B	RADIOACTIVE WASTE TREATMENT, ETC.
K07-B	General
K07-B01	Concentration, solidification, encapsulation
	1986
K07-B01A	. Preparation for long-term storage
	1986
K07-B02	Waste gas treatment
	1986
K07-B03	Waste liquid treatment
	2002
K07-X	OTHER PROTECTIVE AND WASTE TREATMENT TECHNIQUES AND APPARATUS
K07-X	General

## K08 NUCLEONICS, X-RAY TECHNIQUES, ETC.

K08-A	NUCLEAR OR X-RAY MEASUREMENT	
K08-A	General	
	E.g. detection	
K08-A01	Neutron counters	1972
K08-A02	Charged particle counters	2005
K08-A03	Gamma ray and cosmic ray counters	2005
K08-A04	X-ray measurement	2005
K08-B	CONVERSION OF CHEMICAL ELEMENTS, PRODUCING/MODERATING NEUTRONS	
K08-B	General	
K08-C	ENERGY FROM RADIOACTIVE SOURCES, UTILISING COSMIC RADIATION	
K08-C	General	
K08-D	Nuclear explosives	
	Includes nuclear explosion simulation	
K08-D	General	
K08-E	X-RAY TECHNIQUES	
K08-E	General	
K08-E01	X-ray imaging	2005
K08-E02	X-ray therapy or treatment	2005
K08-F	PLASMA TECHNIQUES	
K08-F	General	
K08-G	PARTICLE ACCELERATORS AND CYCLOTRONS	2002
K08-G	General	2002
K08-H	IRRADIATION	2002
K08-H	General	2002
K08-H01	Medical	2002
K08-H02	Food	2002
K08-X	OTHER NUCLEAR TECHNIQUES	
	Includes general isotope separation	
K08-X	General	
K08-X01	Isotope separation	2006

## K09 APPLICATIONS

K09-A	PLASTICS	
K09-A	General	
K09-B	MEDICINE	
K09-B	General	
K09-B01	Imaging, use of isotopes, tracers	2005
K09-B02	Radiotherapy	2005
K09-C	AGRICULTURE	
K09-C	General	
K09-D	FOOD	
K09-D	General	
K09-D01	Irradiation	
	E.g. to improve shelf-life	2005
K09-D02	Testing	2005
K09-E	RADIOCHEMISTRY	
K09-E	General	
K09-F	TEXTILES	
K09-F	General	
K09-G	PHOTOGRAPHY	
K09-G	General	
K09-H	PETROLEUM	
K09-H	General	
K09-J	METALLURGY	
K09-J	General	
K09-K	GENERAL ENGINEERING	
K09-K	General	
K09-L	CONTROL GEAR ENGINEERING	
K09-L	General	
K09-X	OTHER NUCLEAR APPLICATIONS	
K09-X	General	



# **L:**

## **GLASS, CERAMICS, ELECTRO(IN)ORGANICS**

- L01 Glass, Vitreous Enamels
- L02 Refractories, Ceramics, Cement
- L03 Electro -(in)organics
- L04 Semiconductors





## L: GLASS, CERAMICS, ELECTRO(IN)ORGANICS

Code commenced at CPI 197031.

### L01 GLASS, VITREOUS ENAMELS

L01 Glass, vitreous enamels, general

1986

#### L01-A CHEMICAL COMPOSITIONS

L01-A01 Alkalis and alkaline earths, general

L01-A01A . Soda lime glasses

1972

L01-A01B . Other alkali(ne earth) glasses (more than 5%)

1972

L01-A01C . Containing minor amounts alkali (less than 5%)

1972

L01-A02 Pd, Pt and rare earths

L01-A02A . Lanthanide-containing glass

2005

L01-A02B . Platinum and palladium containing glass

2005

L01-A03 Other metals, general

L01-A03A . Alumina-bearing glasses

1972

L01-A03B . Colouring oxide additions

1972

L01-A03C . Other modifying oxides  
oxides of all metals of groups Ib, IIb, III, IV, Va, VIA, VIIA, and VIII, but oxides for modifying borate/borosilicate glasses - see L01-A06B, L01-A06D

1972

L01-A03C1 .. Lead oxide

1986

L01-A03C2 .. Zinc oxide

1986

L01-A04 0-50% silica

L01-A05 50-100% silica

L01-A06 Borate and borosilicate, general

L01-A06A . Unmodified borate

1972

L01-A06B . Modified borate (modified with non-metallic compounds and oxides of groups Vb, Vlb, VIb metals)

1972

L01-A06C . Unmodified borosilicate

1972

L01-A06D . Modified borosilicate (modified with non-metallic compounds and oxides of groups Vb, Vlb, VIb metals)

1972

L01-A07 Other non-metals, general

L01-A07A . Oxide network formers (oxides of P and groups Vb, Vlb and VIb metals)

1972

L01-A07B . Non-oxide glasses (sulphates, phosphides, halides, chalcogenides)

1972

L01-A08 Glass ceramics, crystallised glass compositions

L01-A Unclassified

including vitreous alloys

#### L01-B TREATMENT OF BATCH

L01-B General

L01-B01 Preparation of precursors for glass

1972

L01-B02 Reuse/recycling of glass

2006

#### L01-C GLASS MANUFACTURE (REPLACING FURNACE)

L01-C01 For general application

L01-C02 Design and construction of melting tanks

L01-C03 Operation, working and control of melting tanks

L01-C04 Glass delivery from melting tank

L01-C05 Crucibles

1986

L01-C06 Glass manufacture by sol-gel process

1986

L01-C Unclassified

Including crucibles for glass melting

L01-D	FORMING FLAT GLASS	
L01-D01	Drawing glass from the melt	
L01-D02	Rolling and casting glass	
L01-D03	Forming glass in contact with a liquid surface, general (float glass production)	
L01-D03A	. Bath chamber	
L01-D03B	. Glass treatment in the chamber	
L01-D03C	. Thickness control	
L01-D04	Wire reinforced glass sheet manufacture	1986
L01-D05	Glass sheet manufacture by sol-gel process	1986
L01-D	Unclassified Including wire reinforced glass	
L01-E	FORMING HOLLOW-WARE	
L01-E01	General	1970-1985
L01-E02	Gob formation Including cutting, jets	
L01-E03	Blowing glass Including blow moulding	
L01-E04	Pressing glass	
L01-E05	Moulding glass	
L01-E06	Moulds	
L01-E07	Transfer mechanisms	1972
L01-E08	Shaping glass manufactured by sol-gel process	1986
L01-E	Unclassified	
L01-F	OTHER FORMING PROCESSES	
L01-F01	General	1970-1985
L01-F02	Tube, rod and cylinder formation	
L01-F03	Glass fibre manufacture	
L01-F03A	. Surface treatment	
L01-F03A1	.. Coating optical glass fibres	1986
L01-F03B	. Nozzles for fibre formation	1972
L01-F03C	. Ancillary equipment	1972
L01-F03D	. Forming rovings (fibre twisting, plaiting)	1972
L01-F03E	. Post forming Including cutting fibre mat	1972
L01-F03F	. Optical fibre preform manufacture	1986

L01-F03F1	.. Core and sheath composition	1986
L01-F03F2	.. Glass soot manufacture and deposition on core or sheath	1986
L01-F03F3	.. Depositing glass films on core or sheath Except L01-F03F2	1986
L01-F03F4	.. Fibre preform manufacture using preformed sheath and core rod	1986
L01-F03F5	.. Organic coatings	2002
L01-F03F6	.. Inorganic coatings	2002
L01-F03F7	.. Optical and other coatings	2002
L01-F03G	. Optical fibre drawing and/or spinning	1986
L01-F03H	. Optical fibre cutting and joining	1986
L01-F03J	. Multicore and elliptical single core optical fibre manufacture	1986
L01-F03K	. Apparatus for manufacturing optical fibres	1986
L01-F03L	. Optical fibre cable manufacture	1986
L01-F03M	. Optical fibres, general	1986
L01-F04	Shaping glass to special forms	
L01-F05	Shaping glass manufactured by sol gel process	1986
L01-F06	Vapour deposition of glass to form layers	1986
L01-F07	Foamed glass	1986
L01-F	Unclassified Including glass manufacture by methods other than melting and casting, and sintering; especially foamed glass manufacture. Also includes radioactive waste disposal in glass	

<b>L01-G</b>	<b>POST FORMING TREATMENT</b>		
<b>L01-G01</b>	<b>General</b>		
<b>L01-G01A</b>	. Transfer and handling	1972	
<b>L01-G02</b>	<b>Annealing, sintering</b>		
<b>L01-G03</b>	<b>Thermal and chemical toughening</b>		
<b>L01-G04</b>	<b>Surface coating of glass</b>		
<b>L01-G04A</b>	. Coating glass bottles	1986	
<b>L01-G04B</b>	. Coating glass sheet with organic material	1986	
<b>L01-G04C</b>	. Coating glass sheet with inorganic material	1986	
<b>L01-G04D</b>	. Coating optical components	1986	
<b>L01-G04E</b>	. Coating glass tableware	1986	
<b>L01-G04F</b>	. Coating techniques	2010	
<b>L01-G04F1</b>	. PVD, CVD and Sputtering	2010	
<b>L01-G04F2</b>	. Other coating methods	2010	
<b>L01-G05</b>	<b>Surface modification by colouring, titurisation, etc. (not mechanical)</b>		
<b>L01-G05A</b>	. Doping glass surface e.g. to change refractive index for wave guides	1986	
<b>L01-G06</b>	<b>Mechanical surface treatment</b>		
<b>L01-G07</b>	<b>Cutting of flat glass</b>		
<b>L01-G08</b>	<b>Cutting of glass other than flat</b>		
<b>L01-G09</b>	<b>Decorating glass</b> Including special colouring		
<b>L01-G10</b>	<b>Bending glass</b>		
<b>L01-G11</b>	<b>Cleaning glass</b>	2010	
<b>L01-G</b>	<b>Unclassified</b>		
<b>L01-H</b>	<b>JOINING GLASS</b>		
<b>L01-H01</b>	<b>General</b>	1970-1985	
<b>L01-H02</b>	<b>Laminated glass</b> Specific below take preference		
<b>L01-H03</b>	<b>To glass</b> Including sealing and solder glass		
<b>L01-H04</b>	<b>Joining glass by fusion</b> Excluding L01-H06		
<b>L01-H04A</b>	. Glass-metal seals	1986	
<b>L01-H04B</b>	. Joining glass to ceramics	1986	
<b>L01-H05</b>	<b>To other material with interlayer</b> e.g. of plastics		
<b>L01-H05A</b>	. Glass-plastic seals Including (sealing) double glazing units	1994	
<b>L01-H06</b>	<b>Vitreous enamelling</b>		
<b>L01-H07</b>	<b>By sealants</b> including adhesives		
<b>L01-H08</b>	<b>Glazes</b>	1972	
<b>L01-H</b>	<b>Unclassified</b>		
<b>L01-J</b>	<b>FINISHED PRODUCT HANDLING</b>		
<b>L01-J01</b>	<b>General</b>	1970-1985	
<b>L01-J02</b>	<b>Quality control</b>		
<b>L01-J03</b>	<b>Filling glass containers</b>		
<b>L01-J04</b>	<b>Packing and storage</b>		
<b>L01-J</b>	<b>Unclassified</b>		
<b>L01-K</b>	<b>GLASS CERAMICS</b>		
<b>L01-K01</b>	<b>General</b>	1970-1985	
<b>L01-K02</b>	<b>Process and apparatus</b>		
<b>L01-K03</b>	<b>Applications</b>		
<b>L01-K</b>	<b>Unclassified</b>		
<b>L01-L</b>	<b>APPLICATIONS OF GLASS</b>		
<b>L01-L01</b>	<b>Building</b>		
<b>L01-L02</b>	<b>Vehicles</b>		
<b>L01-L03</b>	<b>Laboratory</b>		
<b>L01-L04</b>	<b>Electrical and electronic</b>		
<b>L01-L05</b>	<b>Optical</b> Including fibres		
<b>L01-L06</b>	<b>Packaging</b> Including bottling, etc.		
<b>L01-L07</b>	<b>Medicinal uses</b>	2002	
<b>L01-L08</b>	<b>Household use</b>	2010	
<b>L01-L</b>	<b>Unclassified</b>		
<b>L01-M</b>	<b>Testing of glass</b> Includes all measuring during processing of glass.	2005	

## L02 REFRACTORIES, CERAMICS, CEMENT

The heading "Cements" (L02-C) refers to the chemical composition and preparation of hydraulic inorganic materials prior to addition of water. The heading "Concretes" (L02-D) refers to the same materials after addition of water despite the fact that they are often called "cements" when in the wet state.

**L02 Refractories, ceramics, cement general** 1986

### L02-A MANUFACTURING METHODS, EQUIPMENT

**L02-A01 General**

**L02-A02 Raw material preparation and treatment**  
Including powder, paste or slurry production, calcination and presintering of powders

**L02-A02A . Sol gel techniques**  
Ceramic manufacture by sol gel 1994

**L02-A02B . PVD, CVD and sputtering techniques**  
e.g. to form diamond films 1994

**L02-A03 Shaping, drying**  
Including slip casting, clay extrusion, pressing, moulding

**L02-A04 Sintering, firing, hot-pressing, hot extrusion**  
Including kiln furniture

**L02-A05 Melting and casting**  
Including fusion of ceramics, but see L02-A03 for slip casting

**L02-A06 Flame and plasma spraying**

**L02-A07 Decorating and glazing**

**L02-A08 Testing/Control**

**L02-A09 Single crystal growing (ceramics)** 1972

**L02-A10 Cleaning** 2010

**L02-A11 Cutting/welding** 2010

**L02-A12 Surface treatment**  
Includes etching, marking and engraving 2010

**L02-A Unclassified**

## L02-B PREPARATION OF MATERIALS

**L02-B01 Lime(stone)**

**L02-B02 Magnesia and dolomite**

**L02-B03 Slags**

**L02-B04 By-products of lime and magnesia**

**L02-B05 Expanded clay** 1972

**L02-B06 Other clays** 1972

**L02-B07 Asbestos**  
Including disposal of waste products 1972

**L02-B08 Mineral fibres**  
e.g. from ceramic oxides, ores, rocks 1972

**L02-B Unclassified**

## L02-C CEMENTS

**L02-C01 General** 1970-1986

**L02-C02 Portland; apparatus for manufacture of cements from raw materials**

**L02-C03 Portland clinker, Pozzuolanic, slag and waste product**

**L02-C04 Magnesium**

**L02-C05 Calcium sulphate**

**L02-C06 Complex for special purposes**

**L02-C07 Alumina (5% alumina)** 1972

**L02-C08 Cement additives** 1972

**L02-C Unclassified**

<b>L02-D</b>	<b>MORTARS, CONCRETES</b>		<b>L02-D14A</b>	<b>. Concrete set accelerators, retarders, activators</b>	1986
<b>L02-D01</b>	<b>Mortars and plasters</b>		<b>L02-D14B</b>	<b>. Concrete strengthening additives</b>	1986
	Including stuccos, grouts, trowellable mortars, mine filling compsns.		<b>L02-D14C</b>	<b>. Frost resistance imparting additives</b>	1986
<b>L02-D02</b>	<b>Heavy concretes; apparatus for manufacture of concrete, mixers, shuttering, mould release agents, lubricants</b>		<b>L02-D14D</b>	<b>. Water reducing additives (to reduce amount of water needed for making concrete)</b>	1986
<b>L02-D03</b>	<b>Light concretes</b>		<b>L02-D14E</b>	<b>. Plasticising and fluidising additives</b>	1986
	e.g. containing pore formers		<b>L02-D14F</b>	<b>. Polymeric additives</b>	1986
<b>L02-D04</b>	<b>Prefabricated concrete</b>		<b>L02-D14M</b>	<b>. Polymeric and organic coatings and impregnants for concrete</b>	1986
	Concrete articles, pipes, blocks, autoclaving equipment		<b>L02-D14N</b>	<b>. Inorganic coatings and impregnants for concrete</b>	1986
<b>L02-D04A</b>	<b>. Compositions</b>	1986	<b>L02-D14P</b>	<b>. Decorative coatings and additives for concretes</b>	1986
<b>L02-D04B</b>	<b>. Methods</b>	1986	<b>L02-D14Q</b>	<b>. Water permeability retarding layers and additives</b>	1986
<b>L02-D04C</b>	<b>. Apparatus</b>	1986	<b>L02-D14R</b>	<b>. Paints</b>	1994
<b>L02-D04D</b>	<b>. Products</b>	1986	<b>L02-D15</b>	<b>Sound and thermal insulation</b>	
<b>L02-D05</b>	<b>Reinforced and pre-stressed concretes and mortars.</b>			Including acoustic and thermal insulation based on inorganic materials, fire protecting panels	1972
	Steel and glass fibre reinforced concrete		<b>L02-D15A</b>	<b>. Fire resistance boards, blocks, blankets etc.</b>	1986
<b>L02-D06</b>	<b>Concretes made with special fillers (based on Portland cement only)</b>		<b>L02-D15B</b>	<b>. Thermal and acoustic insulating boards</b>	1986
<b>L02-D07</b>	<b>Concretes and artificial stone (other than from Portland cement)</b>		<b>L02-D15C</b>	<b>. Thermal and acoustic insulating flexible sheeting</b>	1986
<b>L02-D07A</b>	<b>. Gypsum products</b>		<b>L02-D15D</b>	<b>. Thermal and acoustic insulating material compositions</b>	1986
	Including plaster board, plaster modelling	1977	<b>L02-D</b>	<b>Unclassified</b>	
<b>L02-D07B</b>	<b>. Resin concretes</b>	1977			
<b>L02-D08</b>	<b>Testing methods</b>				
<b>L02-D09</b>	<b>Artificial floors and surfaces</b>				
	Road, paving, sporting surfaces and floors and their subgrades				
<b>L02-D10</b>	<b>Bitumastic compositions</b>	1972			
<b>L02-D11</b>	<b>Asbestos and mineral fibre products</b>	1972			
<b>L02-D12</b>	<b>Soil consolidation</b>				
<b>L02-D12A</b>	<b>. Cementing and sealing compositions for oil and gas wells</b>				
	See also H01-C02B	2005			
<b>L02-D13</b>	<b>Aggregates</b>	1972			
<b>L02-D13A</b>	<b>. Fillers</b>				
	e.g. fly ash etc.	1994			
<b>L02-D14</b>	<b>Concrete additives and coatings</b>				
	Include additives for mortars.	1972			

<b>L02-E</b>	<b>REFRACTORIES</b> Acid refractories are considered as more acid than mullite or forsterite, basic refractories, more basic than mullite or forsterite. Neutral refractories include intermediate acidity materials such as Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> , carbides, nitrides, etc.
<b>L02-E01</b>	<b>General</b>
<b>L02-E02</b>	<b>Fireclay and diatomaceous</b>
<b>L02-E03</b>	<b>Acid</b>
<b>L02-E04</b>	<b>Basic</b>
<b>L02-E05</b>	<b>Mouldables, castables and coatings</b>
<b>L02-E06</b>	<b>Core materials</b> Including refractory hot tops and linings
<b>L02-E07</b>	<b>Carbon and carbon-contg.</b> Takes precedence over L02-E03 and L02-E04
<b>L02-E08</b>	<b>Fused and cast</b>
<b>L02-E09</b>	<b>Amphoteric and neutral</b>
<b>L02-E</b>	<b>Unclassified</b>
<b>L02-F</b>	<b>ABRASIVES (INCLUDING FRICTION MATERIALS FOR CLUTCHES AND BRAKES)</b>
	1994
<b>L02-F01</b>	<b>General (including binders)</b>
	1994
<b>L02-F02</b>	<b>Rouges</b> Including oxides other than L02-F04
<b>L02-F03</b>	<b>Carbides, silicides, nitrides</b> Including abrasive tools using these materials
<b>L02-F04</b>	<b>Harsh oxides (Moh's hardness 6)</b>
<b>L02-F05</b>	<b>Carbon</b>
<b>L02-F05A</b>	. <b>Diamond</b> Including abrasive tools using diamond
	2002
<b>L02-F05B</b>	. <b>Graphite</b>
	2002
<b>L02-F05C</b>	. <b>Carbon fibres</b>
	2002
<b>L02-F06</b>	<b>Automotive uses</b>
	2002
<b>L02-F</b>	<b>Unclassified</b>

<b>L02-G</b>	<b>OXIDE CERAMICS</b>
<b>L02-G01</b>	<b>Inorganic Oxides</b> Includes materials and products made therefrom, e.g. catalyst supports, molecular sieves, filters, diaphragms and membranes. For preparation methods, see L02-G12. Until 200601 code entitled "General".
<b>L02-G01A</b>	. <b>Alumina</b> Includes aluminates, aluminosilicates, zeolites. See L02-G11 for production
	2002
<b>L02-G01B</b>	. <b>Silica</b>
	2002
<b>L02-G01B1</b>	.. <b>Metal silicates</b>
	2006
<b>L02-G01C</b>	. <b>Rare earth oxides</b> Until 200601, code entitled 'yttria'
	2006
<b>L02-G01C1</b>	.. <b>Yttria</b>
	2006
<b>L02-G01C2</b>	.. <b>Ceria</b>
	2006
<b>L02-G01D</b>	. <b>Zirconia</b> Includes zirconates
	2002
<b>L02-G01E</b>	. <b>Titania</b> Includes titanates
	2006
<b>L02-G01F</b>	. <b>Zinc oxides</b>
	2006
<b>L02-G01M</b>	. <b>Mixed metal oxides</b> Includes metallates
	2006
<b>L02-G01M1</b>	.. <b>Metal titanates</b>
	2006
<b>L02-G01X</b>	. <b>Other inorganic oxides</b>
	2006
<b>L02-G02</b>	<b>Heavy clay products</b>
<b>L02-G03</b>	<b>Whiteware</b>
<b>L02-G03A</b>	. <b>Porcelains</b> Including dental porcelains
	1972
<b>L02-G03A1</b>	.. <b>Prostheses, hydroxyapatite, artificial bone</b>
	2002
<b>L02-G04</b>	<b>Colours</b>
<b>L02-G05</b>	<b>Electrical insulators</b> Including preparation of mica, mica sheet, insulators for power lines, ceramic substrates and ceramic encapsulating compositions
<b>L02-G06</b>	<b>Thermal and acoustic insulators</b> Including thermal insulating material prepared by firing a ceramic only. For all other thermal insulating material see L02-D15

L02-G07	<b>Electronic ceramics, general</b> Novel oxides for electrical purposes, prepn. methods of conventional oxides. Ferroelastic materials are coded with ferroelectric materials		L02-G12E	. Silica	2006
L02-G07A	. <b>Magnetic compositions</b>	1972	L02-G12E1	.. <b>Metal silicates</b>	2006
L02-G07B	. <b>Piezoelectrics</b>	1972	L02-G12M	. <b>Mixed metal oxides</b> Includes metallates	2006
L02-G07C	. <b>High permittivity compositions</b>	1972	L02-G12M1	.. <b>Metal titanates</b>	2006
L02-G07D	. <b>Resistive oxide compositions, semiconductive oxide compositions</b> See L03-B01A for zinc oxide based ceramic varistors	1972	L02-G12X	. <b>Other inorganic oxides</b>	2006
L02-G07E	. <b>Conductive ceramics</b>	2002	L02-G	<b>Unclassified</b> Including 'technical' ceramics.	
L02-G08	<b>Wear resistant ceramics, lubricants</b> Including friction materials and artificial and natural oxide gemstones		L02-H	<b>NON-OXIDE CERAMICS</b>	
L02-G09	<b>Nuclear ceramics</b>		L02-H01	<b>General</b>	
L02-G10	<b>Ceramics for optical purposes, general</b>		L02-H02	Carbides, borides, nitrides, silicides, (general)	
L02-G10A	. <b>Luminescent and fluorescent compositions</b>	1972	L02-H02A	. <b>Carbides</b>	1972
L02-G10B	. <b>Laser compositions</b>	2010	L02-H02B	. <b>Borides, nitrides, silicides</b>	1972
L02-G11	<b>Alumina preparation (from raw materials)</b> Includes production of aluminates, aluminosilicates, zeolites	1972	L02-H02B1	.. Borides	1972
L02-G12	<b>Other oxide preparation</b> For manufacture of materials and products made therefrom. See L02-G01 for claimed materials and products. L02-B01 (calcia), L02-B02 (magnesia), L02-G07 (conductive oxides), L02-G11 (alumina, aluminosilicates, zeolite) take preference	1972	L02-H02B2	.. Nitrides	1972
L02-G12A	. <b>Titania</b> Includes titanates	2006	L02-H02B3	.. Silicides	1972
L02-G12B	. <b>Zirconia</b> Includes zirconates	2006	L02-H03	<b>Sulphides, phosphides (novel compositions only)</b>	
L02-G12C	. <b>Zinc oxides</b>	2006	L02-H04	<b>Carbon and graphite, general</b> See also J04-F	
L02-G12D	. <b>Rare earth oxides</b>	2006	L02-H04A	. <b>Carbon fibres</b>	1972
L02-G12D1	.. Yttria	2006	L02-H04B	. <b>Carbon nanostructures</b> Including fullerenes and nanotubes	2002
L02-G12D2	.. Ceria	2006	L02-H05	<b>Arsenides, selenides, tellurides (novel compositions only)</b>	
			L02-H	<b>Unclassified</b> Including halides	

L02-J	CERAMIC COMPOSITES	
L02-J01	Metal/ceramic composites	
L02-J01A	. Metallised ceramic	
L02-J01B	. Cermets Including cermet cutting tools	
L02-J01C	. Ceramic/metal seals	
L02-J01D	. Ceramic fibre reinforced metal	
L02-J01E	. Ceramic coating on metal	
L02-J02	Non-metal/ceramic composites	
L02-J02A	. Ceramic/glass	
L02-J02B	. Ceramic/plastics	
L02-J02C	. Dissimilar ceramics	
L02-J03	. Powder coatings May be used with other L02-J codes, and see M13-H04A	2006
L02-J	Unclassified	1972

L03	ELECTRO-(IN)ORGANIC	
L03-A	CONDUCTORS	
L03-A01	Mainly metals and alloys	
L03-A01A	. Non-insulated (conducting alloys, contacts, conductive inks and pastes)	
L03-A01A1	.. Silver alloy contacts	1986
L03-A01A2	.. Other alloy contacts	1986
L03-A01A3	.. Conductive pastes including polymers filled with conductive metal	1986
L03-A01A4	.. Sliding contacts, pantographs etc.	1986
L03-A01A5	.. Conductive alloy compositions	1986
L03-A01A6	.. Nanomaterials	2010
L03-A01B	. Conductors, metal, insulated	
L03-A01B1	.. Cables	1986
L03-A01B2	.. Joining cables	1986
L03-A01B3	.. Insulated wire	1986
L03-A01B4	.. Insulating oils for cables	1986
L03-A01B5	.. Preparation of leads and terminals	1986
L03-A01B6	.. Soldering, welding, thermo- compression bonding See L04-C17A for soldering of semiconductors and L03-H04E6 for soldering of printed circuits	1986
L03-A01C	. Superconductors	1972
L03-A01C1	.. Metallic superconductors	2002
L03-A01C1A	... Nb superconductors	2002
L03-A01C2	.. Ceramic superconductors	2002
L03-A01C2A	... Perovskite superconductors	2002
L03-A01C2B	... YBCO superconductors	2002
L03-A01C3	.. Organic superconductors	2002



L03-A02	Non metal conductors		L03-B	RESISTORS, MAGNETS, CAPACITORS, SWITCHES	
L03-A02A	. Non-insulated non-metal conductors		L03-B01	Resistors, fixed or adjustable - general	
L03-A02B	. Carbon and graphite	1986	L03-B01A	. Variable resistors	1972
L03-A02C	. Ion conductive solids	1986	L03-B01A1	.. Varistors	1986
L03-A02C1	.. Indium-tin oxide (ITO)	2002	L03-B01A2	.. Thermistors (heat sensitive resistors)	1986
L03-A02D	. Conductive polymers	1986	L03-B01A3	.. Humidity sensitive resistors	1986
L03-A02E	. Polymers filled with non-metallic conductive materials	1986	L03-B01A4	.. Gas sensitive resistors	1986
L03-A02G	. Conductive nanomaterials Includes nanotube, nanowire manufacture. See also L02-H04B for carbon nanostructures.	1986	L03-B01B	. Fixed resistors	1972
L03-A03	Insulators	2002	L03-B01C	. Thick film resistive compositions	1972
L03-A03A	. Organic insulators	2002	L03-B02	Magnets, inductances, transformers, etc., general For magnetic tape compsns. discs, lubricants, etc. see L03-B05 from 198601	
L03-A03B	. Inorganic insulators	2002	L03-B02A	. Magnetic metals, alloys	1972
L03-A	Unclassified Including electrical insulating compositions not codable in L02-G05		L03-B02A1	.. Iron-based powder cores and powders	1986
			L03-B02A2	.. Iron based alloys L03-B02A5 takes precedence	1986
			L03-B02A3	.. Electric steels Including silicon steels	1986
			L03-B02A4	.. Nickel and cobalt-based alloys L03-B02A5 takes precedence	1986
			L03-B02A5	.. Rare earth nickel/cobalt /iron alloys	1986
			L03-B02A6	.. Other alloys	1986
			L03-B02B	. Magnetic non-metals, general	1972
			L03-B02B1	.. Barium ferrite based compsns.	1986
			L03-B02B2	.. Other ferrites	1986
			L03-B02B3	.. Garnets	1986
			L03-B02B4	. Magnetic polymers; plastics	2009
			L03-B02B4A	. Magnetic polymer composite particles Excludes magnetic pigments for recording which is covered in L03-B05D1.	2009

L03-B02B5	. Magnetic liquid compositions	2009	L03-B03H	. Capacitor electrolytes	2006
L03-B02B5A	. Ferrofluids; magnetic colloids	2009	L03-B03J	. Multilayer capacitors	2007
L03-B02B5B	. Magnetorheological fluids; magnetoviscous	2009	L03-B04	Electric switches, relays, protective devices Including arc suppressing gases, commutators, surge arresters	
L03-B02B6	. Other magnetic material compositions Excludes magnetic recording.	2009	L03-B04A	. Switches	1986
L03-B02B6A	. Inorganic composite magnetic particles Excludes magnetic pigments for recording which is covered in L03- B05D1.	2009	L03-B04B	. Relays and contact breakers	1986
L03-B02C	. Inductances Including insulating oils for inductors	1972	L03-B04C	. Commutators	1986
L03-B02D	. Transformers Including insulating oils for transformers	1972	L03-B04D	. Fuses	1986
L03-B02E	. Motors	1986	L03-B04E	. Lightning arresters and surge absorbers	1986
L03-B02F	. Coils	1986	L03-B05	Magnetic Recording Covered by L03-B02 prior to 198601	1986
L03-B02G	. Medical or pharmaceutical industry applications	2009	L03-B05A	. Magnetic tapes	1986
L03-B02H	. Magnetic inks, paints, lacquers	2009	L03-B05B	. Magnetic plates, discs	1986
L03-B02J	. Engineering; Automotive applications	2009	L03-B05C	. Other recording media	1986
L03-B02X	. Other applications of magnets or magnetic compositions Excludes magnetic recording which is covered in L03-B05.	2009	L03-B05D	. Magnetic layers, dispersions	1986
L03-B03	Capacitors and capacitive devices - general Including electrets, condensers		L03-B05D1	.. Magnetic pigments	1986
L03-B03A	. Electrolytic capacitors	1972	L03-B05D2	.. After treatment of magnetic pigments	1986
L03-B03B	. Monolithic capacitors	1972	L03-B05D3	.. Non magnetic additives	1986
L03-B03C	. Thick film capacitive compositions	1972	L03-B05D4	.. Binders for magnetic layers and dispersions	1986
L03-B03D	. Other capacitors, fixed/variable	1972	L03-B05E	. Magnetic layers, metal plating	1986
L03-B03E	. Inorganic dielectric compositions	1986	L03-B05F	. Magneto-optical and thermo- magnetic layers	1986
L03-B03F	. Organic dielectric compositions	1986	L03-B05G	. Magnetic layers for vertical recording	1986
L03-B03G	. Capacitor electrodes	2002	L03-B05H	. Magnetic layers for security documents etc.	1986
L03-B03G1	.. Inorganic capacitor electrodes		L03-B05J	. Magnetic layers general and unspecified	1986
			L03-B05K	. Non-magnetic layers	1986
			L03-B05K1	.. Protective	

L03-B05K2	.. Backing	1986	L03-C	ELECTRIC DISCHARGE LAMPS AND TUBES, INCANDESCENT LAMPS	
L03-B05K3	.. Lubricant	1986	L03-C01	Non-emissive electrodes and materials therefor, getters	
L03-B05L	. Supports for magnetic layers	1986	L03-C02	Emissive electrodes and materials for discharge tubes and lamps, general	
L03-B05L1	.. Polymeric	1986	L03-C02A	. Electrodes Including photo-cathodes and target cathodes	1972
L03-B05L2	.. Metal	1986	L03-C02B	. Fluorescent compositions for TV screens	1972
L03-B05L3	.. Coatings forming part of the support	1986	L03-C02C	. Luminescent compositions for tube surfaces Including fluorescers for diodes, etc.	1972
L03-B05M	. Magnetic heads	1986	L03-C02D	. Vapour fillings and additives	1972
L03-B05N	. Non-magnetic gap fillers for magnetic heads	1986	L03-C03	Electrode supports, mountings, envelopes, bases, common to valves and/or C.R. tubes, X-ray tubes, etc. Including designs for tubes and valves. Also vidicon tubes	
L03-B06	Magnetic cores Including bubbles and dots	1986	L03-C03A	. Electrode supports, seals and mountings Covers materials and methods of manufacture	2005
			L03-C03B	. CRT shadow masks Covers materials and manufacturing techniques e.g. etching	2005
			L03-C04	Incandescent and luminescent screens, discharge tube envelopes, etc. - general	
			L03-C04A	. Incandescent and luminous screens	
			L03-C04B	. Tubes manufacture	
			L03-C05	Electric incandescent lamps	
			L03-C05A	. Seals and mountings Covers sealing and mounting materials and methods for incandescent lamps	2005
			L03-C05B	. Filaments and fillings Covers filament materials and filling gases for incandescent lamps	2005
			L03-C05C	. Lamp envelopes Covers envelope materials and manufacturing methods for incandescent lamps	2005
			L03-C	Unclassified Including electron multiplier tubes dynodes, short arc fluorescent lamps	

<b>L03-D</b>	<b>SEMICONDUCTOR, PIEZOELECTRIC, THERMOOPTIC, OPTO-ELECTRONIC MATERIALS AND DEVICES</b> From 198601, the scope of L03-D02+, L03-D03+, L03-D04+ and L03-D05+ codes which terminated in 1985 are covered by L04+ codes. Scope of all remaining L03-D codes are now covered in L03-G from 200501.	1972-2004
<b>L03-D01</b>	<b>Materials, general</b> Including pyroelectric materials	1972-2004
<b>L03-D01A</b>	. <b>Semiconductor materials</b>	1972-1985
<b>L03-D01B</b>	. <b>Piezoelectric materials</b> Scope now covered in L03-G09A	1972-2004
<b>L03-D01C</b>	. <b>Thermo-optic materials</b> Scope now covered in L03-G09D	1972-2004
<b>L03-D01D</b>	. <b>Opto-electronic materials</b>	1972-2004
<b>L03-D01D1</b>	.. <b>Liquid crystal compounds</b> Scope now covered in L03-G05B1	1986-2004
<b>L03-D01D2</b>	.. <b>Liquid crystal material mixtures</b> Scope now covered in L03-G05B2	1986-2004
<b>L03-D01D3</b>	.. <b>Additives for liquid crystal materials</b> Scope now covered in L03-G05B4	1986-2004
<b>L03-D01E</b>	. <b>Electro-rheological fluids</b> Scope now covered in L03-G09F	1994-2004
<b>L03-D02</b>	<b>Producing semiconductors, doping - general</b>	1970-1985
<b>L03-D02A</b>	. <b>Single crystal growth</b> Semiconducting materials only; does not include epitaxial layer production	1972-1985
<b>L03-D02B</b>	. <b>Zone refining</b>	1972-1985
<b>L03-D02C</b>	. <b>Doping</b>	1972-1985
<b>L03-D03</b>	<b>Producing semiconductor devices using L03-D01 materials - general</b>	1972-1985
<b>L03-D03A</b>	. <b>Doped layers on a substrate</b> Including epitaxial layer production of single crystals	1972-1985
<b>L03-D03B</b>	. <b>Masking techniques</b>	1972-1985
<b>L03-D03C</b>	. <b>Etching, slicing, and dicing</b>	1972-1985
<b>L03-D03D</b>	. <b>Insulating and conductive layer production</b>	1972-1985
<b>L03-D03E</b>	. <b>Production of complete devices</b> Unspecified devices only, otherwise L03-D04:	1972-1985
<b>L03-D03F</b>	. <b>Soldering, thermo-compression bonding</b> Including soldering of any electronic component	1972-1985
<b>L03-D03G</b>	. <b>Encapsulation</b> Including passivation and partial encapsulation	1972-1985
<b>L03-D03H</b>	. <b>Undoped layers on a substrate</b> Including epitaxial layer production of single crystals	1977-1985
<b>L03-D04</b>	<b>Devices - general</b> Including Hall effect and Pockels cell devices and electro- optical devices. From 20050, Scope covered in L03-G10	1972-2004
<b>L03-D04A</b>	. <b>Transistors</b>	1972-1985
<b>L03-D04B</b>	. <b>Diodes, rectifiers</b> Including LED's, light-emitting semiconductive devices and arrays	1972-1985
<b>L03-D04C</b>	. <b>Thyristors</b>	1972-1985
<b>L03-D04D</b>	. <b>Electromechanical transducers</b> Including mechano-electrical transducers (but see L03-H03 for speaker cones); also including ferro-elastic devices Scope covered in L03-G10 from 200501	1972-2004
<b>L03-D04E</b>	. <b>Radiation sensitive devices</b> Including thermo-piles, photoelectric cells	1972-1985
<b>L03-D04F</b>	. <b>Image converters</b> Including image intensifiers. Scope covered in L03-G10	1972-2004
<b>L03-D04G</b>	. <b>Thermo-optical devices</b> Including thermal printing heads Scope now covered in L03-G10B, C and D	1972-2004
<b>L03-D05</b>	<b>Sealing devices in housings</b>	1970-1985
<b>L03-D05A</b>	. <b>Materials for device housings - e.g. polymers for general electrical/ electronic usage</b> Including thermal printing heads	1994-2004
<b>L03-D</b>	<b>Unclassified</b>	

L03-E	BATTERIES, ACCUMULATORS, THERMOELECTRIC ELEMENTS		L03-E01C3	.. Solid electrolytes	2002
L03-E01	Components of primary and secondary cells - general Components take precedence over cell type unless more than two components are claimed		L03-E01C4	.. Liquid electrolytes	2002
L03-E01A	. Separators	1972	L03-E01C5	.. Molten/fused electrolytes	2002
L03-E01B	. Electrodes	1972	L03-E01D	. Other components	1972
L03-E01B1	.. Lead electrodes	1977	L03-E01D1	.. Cases	2002
L03-E01B2	.. Air or oxygen electrodes	1977	L03-E01D2	.. Terminals	2002
L03-E01B3	.. Graphite electrodes	1986	L03-E01D3	.. Seals	2002
L03-E01B4	.. Nickel and cadmium electrodes	1986	L03-E02	Primary cells	
L03-E01B4A	... Ni electrodes for NiCd batteries	2002	L03-E03	Secondary cells	
L03-E01B4B	... Cd electrodes	2002	L03-E04	Solid oxide electrolyte cells	
L03-E01B4C	... Ni MH electrodes Includes H <sub>2</sub> storage alloys	2002	L03-E04A	. Solid electrolyte cells Including beta -Al <sub>2</sub> O <sub>3</sub> for Na-S cells	
L03-E01B5	.. Alkali metal electrodes and unspecified electrodes for alkaline cells	1986	L03-E04A1	.. Solid oxide electrolyte cells	2002
L03-E01B5A	... Manganese oxide electrodes Includes electrodes for alkaline manganese cells	2002	L03-E04A2	.. Solid polymer electrolyte cells	2002
L03-E01B5B	... Lithium electrodes	2002	L03-E04B	. Fuel cell electrodes	2002
L03-E01B5C	... Lithium manganate electrodes	2002	L03-E04B1	.. Catalyst electrodes See also J04-E04D	2006
L03-E01B5D	... Sodium-sulphur electrodes	2002	L03-E04B2	.. Membrane electrodes	2007
L03-E01B6	.. Zinc and zinc oxide electrode	1986	L03-E04C	. Molten carbonate fuel cells	2002
L03-E01B7	.. Silver and silver oxide electrodes	1986	L03-E04D	. Alkaline fuel cells	2002
L03-E01B8	.. Other inorganic electrodes	1986	L03-E04E	. Phosphoric acid fuel cells	2002
L03-E01B8A	... Other inorganic oxide electrodes	2002	L03-E04F	. Hydrogen oxygen fuel cells	2002
L03-E01B9	.. Organic electrodes	1986	L03-E04G	. Fuel cell separators	2002
L03-E01B9A	... Polymer electrodes	2002	L03-E04H	. Production of fuel cell components	2006
L03-E01C	. Electrolytes	1972	L03-E04H1	.. Production of fuel cell separators	2006
L03-E01C1	.. Aqueous electrodes	2002	L03-E04H2	.. Production of fuel cell electrodes	2006
L03-E01C2	.. Non-aqueous electrodes	2002	L03-E04H3	.. Production of other fuel cell components	2006
			L03-E04I	. Hydrogen generation	2006
			L03-E04J	. Hydrogen storage materials	2007
			L03-E05	Other direct energy conversion devices	
			L03-E05A	. Thermocouples	1972

L03-E05B	. Solar cells	1986
L03-E05C	. Gas sensors - i.e. those which are not gas-sensitive resistors	1994
L03-E05D	. Hybrid cells	2002
L03-E05D1	.. Electrodes	2002
L03-E05D2	.. Metal-air hybrid cells	2002
L03-E05D3	.. Metal-halogen hybrid cells	2002
L03-E06	Reclamation and disposal See also relevant electrode code	2002
L03-E07	Testing batteries	2002
L03-E08	Production of battery components See also relevant electrode code. Includes apparatus for manufacturing battery and its components	2006
L03-E08A	. Production of separators	2006
L03-E08B	. Production of electrodes	2006
L03-E08C	. Production of other components e.g. cases, terminals and seals	2006
L03-E09	Recharging batteries e.g. processes or apparatus for recharging. Only if sufficient chemical interest. See also X16-G	2006
L03-E	Unclassified	
L03-F	STIMULATED RADIATION-EMISSION DEVICES	
L03-F01	Masers	
L03-F02	Lasers, general	
L03-F02A	. Compositions	1972
L03-F02A1	.. Gaseous laser compositions	2002
L03-F02A2	.. Solid laser compositions Includes YAG, Ruby	2002
L03-F02B	. Construction and design	1972
L03-F	Unclassified	1972

L03-G	OTHER BASIC ELECTRO(ON)IC ELEMENTS AND MATERIALS	
L03-G01	Delay lines	1972
L03-G02	Wave guides Includes optical fibre waveguides	1972
L03-G02A	. Polarisers	2002
L03-G02B	. Optical filters	2002
L03-G02C	. Attenuators	2002
L03-G02A	. Components for optoelectronic circuits	2002
L03-G03	Coulometers	1972
L03-G04	Optical memory and storage elements Covers optical discs and holographic media	1972
L03-G04A	. Semiconductor memory elements Scope now covered by L04-E15	1986-2004
L03-G04B	. Optical memory elements For Magnetic and Magneto-optical memory elements see L03-B05	1986
L03-G04B1	.. Dyes and pigments for recordable discs	2005
L03-G04B2	.. Alloy compositions for recordable discs For dynamic e.g. phase change optical disk memory using e.g. GeSbTe alloys. See also T03-B01B5G	2005
L03-G04B3	.. Substrates for optical discs	2005
L03-G04B4	.. Coatings for recordable discs	2005
L03-G04B9	.. Materials for holographic applications	2005
L03-G05	Display devices Including arrays	1972
L03-G05A	. Liquid crystal display devices But see L03-D01D for liquid crystal materials.	1986
L03-G05A1	.. LCD panels	2002
L03-G05A2	.. Light valves	2002
L03-G05A3	.. Backlight units	2010

L03-G05B	. Materials and components for LCDs display devices	1986	L03-G06	Electromagnetic shielding	2002
L03-G05B1	.. Novel liquid crystal compounds	2005	L03-G07	Heat sinks	2002
L03-G05B2	.. Liquid crystal compositions	2005	L03-G09	<b>Other Electro(in)organic Materials</b> For materials used in specific applications not catered for elsewhere, e.g. GeSbTe for solid state phase change memory, in which case also apply L04-E15. See U14-A03H and U12-B02	2005
L03-G05B3	.. Dyes for liquid crystal compounds	2005	L03-G09A	. Piezoelectric	2005
L03-G05B4	.. Aligning agents and other additives for LC compositions	2005	L03-G09A1	.. Inorganic Covers e.g. lead zirconium titanates (PZT) etc.	2005
L03-G05B5	.. Substrates and spacers for LCDs	2005	L03-G09A2	.. Organic Covers e.g. polyvinylidene fluoride (PVdF) etc.	2005
L03-G05B5A	... Sealant materials involving resins used in display materials	2007	L03-G09B	. Ferroelectric and ferroelastic	2005
L03-G05B6	.. Transistors for LCDs	2005	L03-G09C	. Pyroelectric	2005
L03-G05B7	.. Filters and polarisers	2005	L03-G09D	. Thermooptical	2005
L03-G05B7A	... Colour filters See L03-G02 for colour filters not used in LCDs	2005	L03-G09E	. Other optoelectronic materials Includes other non-linear optical materials not covered above	2005
L03-G05B7B	... Polarisers	2005	L03-G09F	. Electrorheological	2005
L03-G05B8	.. Alignment layers	2005	L03-G09G	. Fluorescent and luminescent materials for semiconductor manufacture Used in e.g. LEDs, lasers	2007
L03-G05B9	.. Conductive films and other components for LCDs	2005	L03-G09H	. Electrostrictive	2010
L03-G05C	. Electrochromic display devices	1986	L03-G09I	. Magnetostrictive	2010
L03-G05C1	.. Electrochromic materials	2005	L03-G09J	. Photoelectric	2010
L03-G05C2	.. Other materials for electrochromic devices Includes e.g. polymer or ceramic sealants or glass layers	2005	L03-G09P	. Photoresist Excludes photoresist for PCB and semiconductor device manufacture. Includes resist for printer or LCD manufacture.	2010
L03-G05D	. Field emission displays (FED)	2002	L03-G09T	Thermoelectric	2010
L03-G05E	. Plasma displays (PDP)	2002	L03-G10	<b>Other electronic devices</b> For specific devices not catered for elsewhere where the materials aspect is important	2005
L03-G05F	. Electroluminescent displays (EL)	2002			
L03-G05F1	.. Electroluminescent materials	2005			
L03-G05F2	.. Other materials for EL devices Includes e.g. polymer or ceramic sealants or glass layers	2005			
L03-G05G	. Electrophoretic displays and materials	2005			
L03-G05H	. Magnetophoretic display	2010			

L03-G10A	. Piezoelectric transducers See also V06 codes for specific details 2005
L03-G10A1	.. Inkjet heads 2005
L03-G10A2	.. Motors e.g. USM 2005
L03-G10B	. Thermal inkjet printing heads 2005
L03-G10C	. Thermal printing heads e.g. as used by dye sublimation printers 2005
L03-G10D	. Other thermo-optical devices 2005
L03-G10E	. Image converters and intensifiers 2005
L03-G	Unclassified
L03-H	APPLICATIONS
L03-H01	Generation, conversion, distribution Including MHD generation, triboelectric devices
L03-H02	Basic electronic circuitry Including lead frames for semiconductor networks and hybrid devices
L03-H03	Electric communications techniques - general Including speaker cones
L03-H03A	. Data storage units, computers 1972
L03-H03B	. Bio- and Neuro-computers 1994
L03-H04	Electrical general
L03-H04A	. Electrical heating and lighting Including resistive and other space heaters, storage heaters
L03-H04B	. Static electricity
L03-H04C	. X-ray techniques Including tube fluoescers, image intensifiers and electrodes
L03-H04D	. Plasma techniques, particle accelerators Including magnetrons
L03-H04E	. Printed circuits and racks - general
L03-H04E1	.. PCB substrate manufacture (plastics, resins, etc.) 1972
L03-H04E2	.. Patterning, including photoresists, application & removal, etching etc. 1972
L03-H04E3	.. Metallising, plating, vapour deposition, forming metal sheet and laminating etc 1972

L03-H04E4	.. Thick film circuits Including conductive pastes and inks for thick film circuit manufacture 1972
L03-H04E5	.. Ceramic substrates for PCB's Includes glass and enamels substrates or coatings on metals or ceramics 1972
L03-H04E6	.. Soldering. Including tinning of circuits, soldering components to circuits, soldering apparatus etc. Brazing 1986
L03-H04E6A	... Adhesives/adhesive joining for PCBs 2007
L03-H04E7	.. Microwelding 1986
L03-H04E8	.. Encapsulation of PCB's Including plastics and glass encapsulation 1986
L03-H04E9	.. Other treatment of PCB's 1986
L03-H05	Vehicles Including sparking and resistive ignition plugs
L03-H	Applications Unclassified
L03-J	OTHER MANUFACTURE AND TREATMENT OF ELECTR(ON)IC COMPONENTS AND MATERIALS
L03-J	General and unclassified 1986
L03-J01	Recycling of electrical and electronic materials and devices Used in combination with relevant device codes 2005
L03-J02	Materials for device housings and packaging Includes polymers e.g. for electrical device casings and for non-specific electrical uses and material used for packaging devices and apparatus for storage 2005



## L04 SEMICONDUCTORS

For ceramic semiconductors see the appropriate ceramic composition and L03-A02 or L03-B01. See also L03-D+: codes prior to 198601.

### L04 Semiconductors general.

This code will be used where no reference is made to which semiconductor is under consideration and where no other L04 code is appropriate

1986

#### L04-A MATERIALS - GENERAL Including preparation of precursor materials

**L04-A General**  
Materials codes will be used to identify material used in semiconductor processing and devices, where given (except for silicon which is the normal semiconductor material). These codes will also be used for preparation of the semiconductor material from impure precursors, (including silicon).

1986

L04-A01 Silicon 1986-2002

L04-A02A . Gallium arsenide 1986-2002

L04-A02B . Gallium phosphide 1986-2002

L04-A02C . Indium antimonide, indium phosphide 1986-2002

L04-A02D . Complex ternary and quaternary AIII-BV compounds 1986-2002

L04-A01 Group IV semiconductors 2002

L04-A01A . Silicon 2002

L04-A01B . Silicon carbide 2002

L04-A01C . Silicon-germanium 2002

L04-A01D . Diamond 2002

L04-A01E . Germanium 2002

L04-A01F . Other group IV semiconductors 2002

L04-A02 AIII-BV compounds- general 1986

L04-A02A . Binary AIII-BV compound semiconductors 2002

L04-A02A1 .. Nitrides 2002

L04-A02A1A ... Gallium nitrides 2002

L04-A02A1B ... Indium nitrides 2002

L04-A02A1C ... Aluminium nitrides 2002

L04-A02A2 .. Phosphides 2002

L04-A02A2A ... Gallium phosphides 2002

L04-A02A2B ... Indium phosphides 2002

L04-A02A2C ... Aluminium phosphides 2002

L04-A02A3 .. Arsenides 2002

L04-A02A3A ... Gallium arsenides 2002

L04-A02A3B ... Indium arsenides 2002

L04-A02A3C ... Aluminium arsenides 2002

L04-A02A4 .. Antimonides 2002

L04-A02A4A ... Gallium antimonides 2002

L04-A02A4B ... Indium antimonides 2002

L04-A02A4C ... Aluminium antimonides 2002

L04-A02B . Tertiary AIII-BV compound semiconductors 2002

L04-A02B1 .. Nitrides 2002

L04-A02B2 .. Phosphides 2002

L04-A02B3 .. Arsenides 2002

L04-A02B4 .. Antimonides 2002

L04-A02C . Quaternary AIII-BV compound semiconductors 2002

L04-A02C1 .. Nitrides 2002

L04-A02C2 .. Phosphides 2002

L04-A02C3 .. Arsenides 2002

L04-A02C4 .. Antimonides 2002

L04-A02D . Other AIII-BV compound semiconductors 2002

L04-A03 AII-BVI cpds.- general 1986

L04-A03A . Mercury sulphide, cadmium sulphide, zinc sulphide 1986

L04-A03B	. Mercury selenide, cadmium selenide, zinc selenide	1986	L04-C	SEMICONDUCTOR PROCESSING - GENERAL	
L04-A03C	. Tellurides	2002	L04-C	General	1986
L04-A03D	. Zinc oxide	2010	L04-C01	Epitaxial growth of semiconductor layers	1986
L04-A04	Organic semiconductor materials	1986	L04-C01A	. Vapour deposition	1986
L04-A04A	. Dianhydride semiconductor materials	2002	L04-C01B	. Chemical vapour deposition Including plasma CVD	1986
L04-A04B	. Cyanine semiconductor materials	2002	L04-C01C	. Liquid epitaxial growth	1986
L04-A04C	. Thiophene semiconductors	2002	L04-C01D	. Sputtering of semiconductor layers	2002
L04-A04D	. Other organic semiconductor materials	2002	L04-C02	Doped layers and regions	1986
L04-A05	. Semiconductor nanomaterials	2010	L04-C02A	. Forming layers with simultaneous doping	1986
L04-B	MANUFACTURE OF SEMICONDUCTOR MONOCRYSTALS - GENERAL		L04-C02B	. Doping by ion injection	1986
L04-B	General	1986	L04-C02C	. Doping by gaseous, liquid or solid contact	1986
L04-B01	Single crystal growth by Czochralski, Bridgman and other methods	1986	L04-C02D	. Doping by diffusion	1986
L04-B01A	. Methods	2002	L04-C03	Amorphous layers	1986
L04-B01B	. Seed crystals	2002	L04-C04	Polycrystalline layers	1986
L04-B01C	. Apparatus	2002	L04-C05	Masking and resist materials	1986
L04-B02	General purification		L04-C06	Patterning techniques general Including sequences of masking and etching steps	1986
L04-B02A	. Zone refining	2002	L04-C06A	. Mask design and manufacture	1986
L04-B02B	. Gettering	2002	L04-C06B	. Resists	1986
L04-B03	Doping	1986	L04-C06B1	.. Patterning of resists	2002
L04-B04	Wafer production	1986	L04-C06B2	.. Stripping of resists Includes stripping compositions	2002
L04-B04A	. Chemical-mechanical polishing	2002	L04-C06C	. Hole manufacture	1986
L04-B04B	. Slicing and dicing	2002	L04-C06D	. Aligning masks and layers	1986
			L04-C07	Etching processes general Includes etch stop layers.	1986
			L04-C07A	. Ion beam etching	1986
			L04-C07B	. Vapour phase etching, dry etching	1986

L04-C07C	. Liquid phase etching, etchants	1986	L04-C11	Contacts, terminals, electrodes - general	1986
L04-C07C1	.. Chemical liquid phase etching	2002	L04-C11A	. Ohmic contacts	1986
L04-C07C2	.. Electrochemical liquid phase etching	2002	L04-C11B	. Schottky contacts	1986
L04-C07D	. Plasma etching	1986	L04-C11C	. Electrodes	1986
L04-C07E	. Groove formation, dicing	1986	L04-C11C1	.. Gate electrodes	2002
L04-C07F	. Mechanical etching	2002	L04-C11C2	.. Capacitor electrodes	2002
L04-C08	Combinations of L04-C01 - L04-C07	1986	L04-C11D	. Terminal posts	1986
L04-C09	Washing, rinsing and drying processes To include cleaning	1986	L04-C12	Insulating and passivating layers - general	1986
L04-C09A	. Washing and cleaning compositions	2005	L04-C12A	. Oxide layers	1986
L04-C09B	. Methods	2005	L04-C12B	. Nitride layers	1986
L04-C09C	. Apparatus	2005	L04-C12C	. Isolating mesas, islands etc.	1986
L04-C10	Conductive layers - general Including films	1986	L04-C12C1	.. Semiconductor on insulator (SOI)	2006
L04-C10A	. Conductive tracks, circuits	1986	L04-C12C2	.. Trench isolation (e.g. STI)	2006
L04-C10A1	.. Electrical fuses Used in CMOS compatible processes. For chip ID, serial number, feature selection, memory redundancy, One-Time_Programmable (OTP).	2007	L04-C12C3	.. LOCOS	2006
L04-C10B	. Polycrystalline silicon layers	1986	L04-C12D	. Glass layers	1986
L04-C10C	. Aluminium alloys	1986	L04-C12E	. Plastics layers	1986
L04-C10D	. Copper alloys	1986	L04-C12F	. Layer conversion, especially to semiconductor or conductor	1986
L04-C10E	. Precious metals (alloys)	1986	L04-C12G	. Resistors	2006
L04-C10F	. Other compositions	1986	L04-C13	Multilayer systems i.e. multiple conductive layers with intermediate insulating layers	1986
L04-C10G	. Buried layers	1986	L04-C13A	. Forming through holes	1986
L04-C10H	. Layer conversion especially to semiconductor or insulator	1986	L04-C13B	. Forming through hole connections	1986
L04-C10J	. Tungsten	2002	L04-C14	Combinations of insulating and conductive film or layer formation	1986
L04-C10K	. Titanium	2002	L04-C14A	. Capacitive elements i.e. for ROMs etc.	1994
			L04-C15	Many stage process sequences	1986

L04-C16	Heat treatment of semiconductors	1986	L04-C26	Other treatment processes not specified above Includes spacers.	
L04-C16A	. Annealing	2002	L04-C27	Planarising	2002
L04-C16B	. Laser annealing	2005	<hr/>		
L04-C17	Bonding Processes	1986	L04-D	APPARATUS FOR SEMICONDUCTOR PROCESSING	
L04-C17A	. Soldering techniques Including desoldering	1986	L04-D	General	1986
L04-C17B	. Thermocompression bonding	1986	L04-D01	Vapour deposition apparatus	1986
L04-C17C	. Welding - microwelding	1986	L04-D02	Cathode sputtering apparatus	1986
L04-C17D	. General adhesive use		L04-D03	Liquid phase deposition apparatus	1986
L04-C17D1	.. Permanent bonding	2002	L04-D04	Ion or plasma bombardment apparatus	1986
L04-C11D2	.. Temporary bonding (TAB)	2002	L04-D04A	. Plasma etching apparatus	2007
L04-C18	Testing of semiconductors and devices. Process monitoring and control	1986	L04-D04B	. Plasma bombardment apparatus for layer deposition	2007
L04-C18A	. Process monitoring and control See also relevant L04-C and U11-C process codes and U11-F codes	2005	L04-D05	Furnaces for heat treatment	1986
L04-C18B	. Testing methods/apparatus Includes measuring during processing and defect repair. See also U11-F codes	2005	L04-D06	Diffusion apparatus	1986
L04-C19	Marking of defective and other devices	1986	L04-D07	Soldering apparatus	1986
L04-C20	Encapsulation of semi-conductor device - general	1986	L04-D08	Resist coating apparatus	1986
L04-C20A	. Using resin	1986	L04-D09	Furnace furniture i.e. boats crucibles, wafer supports	1986
L04-C20B	. Using glass or other compsn.	1986	L04-D10	Ancillary equipment	1986
L04-C20C	. Appts. for encapsulation - moulds, handling equipment	1986	L04-D11	Other apparatus Includes cleaning, testing of manufacturing apparatus. Can be used with other L04-D codes as appropriate.	2010
L04-C20D	. Encapsulating IC's chips with lead frames, assemblies	1986	<hr/>		
L04-C21	Sealing devices into housings - using prefabricated resin or ceramic parts	1986	L04-E	SEMICONDUCTOR DEVICES	
L04-C22	Substrate manufacture	1986	L04-E01	Transistors - general	1986
L04-C23	Lead frame manufacture	1986	L04-E01A	. Field effect transistors (FET)	1986
L04-C24	Attaching devices to lead frames	1986	L04-E01A1	.. Junction field effect transistors (JFET)	1986
L04-C24A	. Attaching devices using TAB	1994	L04-E01B	. Metal oxide semiconductor transistors (MOST)	1986
L04-C25	Heat sinks	1986	L04-E01B1	.. Metal oxide semiconductor field effect transistors (MOSFET)	1986

L04-E01C	. Metal insulator semiconductor transistors (MIST, MISFET)	1986	L04-E09	Superconductive devices (Josephson junction elements)	1986
L04-E01D	. Bipolar transistors Includes N-P-N and P-N-P	2002	L04-E10	Electromechanical sensors	1994
L04-E01E	. Thin film transistors (TFT) Includes TFT switching elements for active matrix LCD devices	2002	L04-E15	Semiconductor memories	2005
L04-E01F	. CHEMFET	2005	L04-E	General and unclassified	1986
L04-E01G	. Phototransistors	2005	L04-F	ASSEMBLIES OF SEMICONDUCTOR DEVICES TOGETHER AND/OR WITH OTHER DEVICES	
L04-E01H	. Lab-on-chip see also J04-B02, S03-H01 and U13-D04B codes	2005	L04-F	General	1986
L04-E02	Diodes, rectifiers	1986	L04-F01	Assembling devices on a substrate	1986
L04-E02A	. Photodiodes	2005	L04-F02	Soldering devices together, on a substrate, or in a circuit	1986
L04-E03	Light emitting devices LED except where diode is specifically mentioned	1986	L04-F03	Integrated circuit systems	1986
L04-E03A	. Light-emitting diodes	1986	L04-F04	Integrated optical systems	1986
L04-E03B	. Semiconductor lasers	1986	L04-F05	Sealing circuits into packages or housings Including single in-line and dual in-line systems	1986
L04-E04	Thyristors	1986	L04-F06	Hybrid circuits	1986
L04-E05	Light receiving and detecting devices	1986	L04-X	ANCILIARY SEMICONDUCTOR MANUFACTURING PROCESS AND APPARATUS	
L04-E05A	. Image sensors	1986	L04-X	Unclassified	1986
L04-E05B	. Photoconductors	1986	L04-X01	Ultrapure water production for semiconductor processes see also J01 codes for specific treatment methods and apparatus	2005
L04-E05C	. Infrared detectors	1986	L04-X02	Processing of waste water from semiconductor manufacturing processes see also J01 codes for specific treatment methods and apparatus	2005
L04-E05D	. Photovoltaic devices, photoelectric cells See L03-E05 for solar cells	1986	L04-X03	Processing of waste gases from semiconductor manufacturing processes see also J01 codes for specific treatment methods and apparatus	2005
L04-E05E	. Electrophotography	1986	L04-X04	Clean room apparatus and processes see also J01 codes for specific treatment methods and apparatus	2006
L04-E05F	. Charge coupled devices (CCD)	1986			
L04-E05G	. Photoresistors	2005			
L04-E06	Integrated injection logic (IIL or I2L) devices	1986			
L04-E07	Hall effect devices	1986			
L04-E08	Semiconductor switches	1986			



## M:

### METALLURGY

M11	Electroplating, Electrolytic Treatment of or with Metals
M12	Chemical Cleaning, including Degreasing
M13	Non-Electrolytic Coating
M14	Other Chemical Metal Surface, Surface Treatment
M21	Mechanical Working of Metal - without Metal Remover
M22	Casting, Powder Metallurgy
M23	Soldering, Welding
M24	Metallurgy of Iron and Steel
M25	Non-Ferrous Metal Production/ Refining
M26	Non-Ferrous Alloys
M27	Ferrous Alloys
M28	Electrolytic/Electrothermic Production/Refining Metals
M29	Changing Physical Structure Non-Ferrous Metal Alloys





## M: METALLURGY

Furnaces are coded as to their use, e.g. melting furnaces for metal casting M22-G03G; heat treatment furnaces M24-D04, M29-C02; sintering furnaces M22-H03B or M24-A01, M25-A02; electric furnaces, if of a general type, M28-E.

In sub-sections M26 and M27, there is additionally provided a terminal code letter to indicate the important alloying material.

Non-electrolytic coatings are coded according to their method of production, and if not specified coded under a general code.

The code commenced at CPI 197001.

### M11 ELECTROPLATING, ELECTROLYTIC TREATMENT OF OR WITH METALS

M11 has priority over M12 to 14: Thus M11-F covers boriding, chromating, etc. where these processes are electro-chemical in nature.

<b>M11-A</b>	<b>ELECTROLYTIC DEPOSITION OF METALS, ALLOYS</b>	
<b>M11-A</b>	<b>General</b>	
<b>M11-A01</b>	<b>Chromium</b>	
<b>M11-A02</b>	<b>Nickel or cobalt</b>	
<b>M11-A03</b>	<b>Copper</b>	
<b>M11-A04</b>	<b>Zinc</b>	
<b>M11-A05</b>	<b>Noble metals (Ru, Rh, Pd, Ag, Os, Ir, Pt, Au)</b>	
<b>M11-A06</b>	<b>Iron</b>	
<b>M11-A06A</b>	<b>. Iron</b>	1972
<b>M11-A07</b>	<b>Tin</b>	2002
<b>M11-A09</b>	<b>Other specified metals</b>	2002

<b>M11-B</b>	<b>SPECIAL PROCESSES, CHEMICAL ADDITIVES</b>	
<b>M11-B</b>	<b>General</b>	
<b>M11-B01</b>	<b>Brighteners and levelling agents</b>	
<b>M11-B02</b>	<b>Multilayer deposition</b>	
<b>M11-B03</b>	<b>After-treatment, thermal</b>	
<b>M11-B04</b>	<b>Electroplating tubes, wire, etc.</b>	
<b>M11-B05</b>	<b>Plating of difficult surfaces</b> e.g. non-conductors and printed circuits	
<b>M11-B05A</b>	<b>. For electrical components</b>	2006
<b>M11-B06</b>	<b>Disposal/recovery used electrolytes/ rinses</b>	
<b>M11-B07</b>	<b>Control systems and servicing</b>	
<b>M11-B08</b>	<b>Laboratory methods</b>	
<b>M11-B09</b>	<b>Pretreatment of metallic substrates</b>	1972
<b>M11-B10</b>	<b>Electrolytic compositions</b>	2002
<b>M11-B11</b>	<b>Electrolytic coating containing embedded materials</b> Includes particulates, whiskers, composite materials	2010

<b>M11-C</b>	<b>APPARATUS FOR ELECTROPLATING</b>	
<b>M11-C</b>	<b>General</b>	
<b>M11-C01</b>	<b>Electrical aspects</b> includes electrodes, power supplies, etc.	2002
<b>M11-C02</b>	<b>Mechanical aspects</b> includes baths, lifting mechanisms	2002

<b>M11-D</b>	<b>ELECTROFORMING</b>	
<b>M11-D</b>	<b>General</b>	
<b>M11-E</b>	<b>ANODISING OF METALS</b>	
<b>M11-E01</b>	<b>Decorative, anticorrosive purposes</b>	
<b>M11-E02</b>	<b>Electrical purposes</b> e.g. capacitor foil	
<b>M11-E</b>	<b>General</b>	

M11-F	ELECTROCHEMICAL FORMING NON-METALLIC LAYERS ON METALS	
M11-F	<b>General</b> includes boriding, chromating, etc.	
M11-G	COATING METALS BY ELECTROPHORESIS	
M11-G	<b>General</b>	
M11-G01	<b>Application of paint</b>	
M11-H	ELECTROLYTIC CLEANING, ETCHING AND POLISHING	
M11-H	<b>General</b>	1986
M11-H01	Electrolytic cleaning	
M11-H02	<b>Electrolytic polishing</b> includes electrolytic etching	
M11-H03	<b>Electrochemical machinery, localised metal removal</b> scope now covered in M23-D06	1986-2002
M11-H04	<b>Electrolytic etching</b> scope now covered in M11-H02	1986-2002
M11-H05	<b>Apparatus</b>	1986
M11-J	CONTROL/TESTING	1972
M11-J	<b>General</b>	
M11-J01	<b>Composition control</b>	2002
M11-J02	<b>Control systems</b>	2002
M11-J03	<b>Testing</b>	2002

## M12 CHEMICAL CLEANING, INCLUDING DEGREASING

M12-A	CLEANING, PICKLING METAL	
M12-A	<b>General</b>	
M12-A01	Cleaning solutions/salt mixtures	
M12-A02	Inhibitors for cleaning solutions/salts	
M12-A03	Disposal/regeneration of used solution/salt mixtures	
M12-A04	<b>Apparatus</b>	
M12-A05	<b>Processes</b>	1986
M12-B	<b>Other cleaning methods</b>	
M12-B01	<b>Degreasing</b>	
M12-B	<b>Unclassified</b> Includes apparatus.	

**M13 NON-ELECTROLYTIC COATING**

M13-A	COATING FROM A LIQUID METAL BATH	
M13-A	General	
M13-A01	Hot dipping	2002
M13-A02	Galvanising	2002
M13-B	Coating from solution or suspension of metal compounds	
M13-B	General	
	Includes electroless plating	
M13-C	METAL SPRAYING	
M13-C	General	
M13-C01	Methods	
	Including plasma spraying	2002
M13-C02	Apparatus	
	Including torches, nozzles, etc.	2002
M13-D	CEMENTATION BY DIFFUSION PROCESS	
M13-D	General	1972
M13-D01	Using solids	
M13-D01A	. Carburising/nitriding	1986
M13-D01B	. Others	
	Including carbonitriding, boronising, chromising, aluminising	1986
M13-D02	Using liquids	
M13-D02A	. Carburising/nitriding	1986
M13-D02B	. Others	1986
M13-D03	Using gases	
M13-D03A	. Carburising/nitriding	1986
M13-D03B	. Others	
	Including oxidising, chromising	1986
M13-D04	Post-treatment of coatings	1986

M13-E	GAS PLATING BY DECOMPOSITION OR REDUCTION	
M13-E	General	
M13-E01	To form metallic coatings	
M13-E02	To form inorganic coatings	
M13-E03	To form organic coatings	
M13-E04	Pretreatment of substrates	1986
M13-E05	Process characterised by glow or arc discharge	1986
M13-E06	Process characterised by thermal decomposition or reduction of gases on heated surfaces	1986
M13-E07	Apparatus	1986
M13-E08	Post treatment of coatings	1986
M13-F	FORMING COATINGS BY CONDENSATION FROM A VAPOUR	
M13-F	General	
M13-F01	Pretreatment of substrates	1986
M13-F02	Coating on metallic substrates	1986
M13-F03	Coating on other substrates	
	Including Si substrates	1986
M13-F03A	. Coating on semiconductors	2002
M13-F03B	. Coating on glass and ceramics	2002
M13-F03C	. Coating on organic substrates	
	Including polymers	2002
M13-F04	Post treatment of coatings	1986
M13-F05	Apparatus	
	Includes substrate holders.	2002

M13-G	CATHODIC SPUTTERING	
M13-G	General	
M13-G01	Pretreatment	1986
M13-G02	Apparatus Including target materials	1986
M13-G02A	. Targets Including materials and manufacture	2002
M13-G02B	. Magnetrons (in sputtering apparatus) See also V05-C codes	2007
M13-G03	Sputtering on metallic surfaces	2002
M13-G04	Sputtering on non-metallic surfaces	2002
M13-H	OTHER COATING METHODS	
M13-H01	Cladding Including weld deposition	1972
M13-H02	Sintering on	1972
M13-H03	Using adhesives	1972
M13-H04	Refractory coatings, general	1972
M13-H04A	. Powder coatings	2006
M13-H05	Plastics coating, general	1972
M13-H05A	. Powder coatings	2006
M13-H06	Electrostatic coating, general	1972
M13-H	General and unclassified	

M13-J	ENAMELLING AND VITREOUS COATING	
M13-J01	Pre-treatment of surface	
M13-J02	Enamelling/coating	
M13-J03	After treatment Including de-enamelling	
M13-J	General and unclassified	1972
M13-K	OIL-FREE LUBRICANT AND FRICTION COATINGS	
M13-K	General	
M13-K01	Lubricant coatings Including Teflon (RTM) coatings	2002
M13-K02	Friction Including coatings for bearings	2002
M13-L	CONTROL/TESTING	
M13-L	General	1972
M13-M	PROTECTIVE LAYERS	
M13-M	General	2002
M13-M01	Thermal barrier coating	2002
M13-M02	Wear resistant	2006

## M14 OTHER CHEMICAL METAL SURFACE TREATMENT

M14-A	ETCHING	
M14-A	General	
M14-A01	Mechanical processes	1986
M14-A02	Chemical processes	1986
M14-A03	Etching media Including aqueous and gaseous compositions	1986
M14-A04	Laser or ion beam processes	1994
M14-B	BRIGHTENING	
M14-B	General	
M14-C	COLOURED LAYERS	
M14-C	General For anodising of metals see M11-E01 instead.	
M14-D	NON-METALLIC LAYERS BY SURFACE REACTION	
M14-D	General	
M14-D01	Oxide layers	
M14-D02	Phosphate layers	
M14-D03	Chromate layers	1972
M14-E	Anodic protection	
M14-E	General	

M14-F	CORROSION INHIBITORS	
M14-F	General	
M14-F01	Organic	
M14-F02	Inorganic	
M14-G	CATHODIC PROTECTION	
M14-G	General	
M14-G01	Impressed EMF	2002
M14-G02	Passive systems includes sacrificial anodes	2002
M14-H	MULTISTAGE CHEMICAL/PHYSICAL PROCESSES	
M14-H	General	
M14-J	CORROSION TESTING, CONTROL, ETC.	
M14-J	General	1972
M14-K	CORROSION PROTECTION	
M14-K	General Includes plastic wrapping	1972

## M21 MECHANICAL WORKING OF METAL - WITHOUT METAL REMOVAL

M21-A	ROLLING METAL STOCK-
M21-A	General
M21-A01	Rolling mills and methods, general and unclassified
M21-A01A	. Hot rolling
	2002
M21-A01B	. Cold rolling
	2002
M21-A02	Rolling mill stands, components Including gears, bearings, etc.
M21-A02A	. Rolls Including production of composite rolls, treatments such as grinding, polishing, heat, blooming
	1986
M21-A03	Tube and pipe mills
M21-A03A	. Strip, bar and wire mills
	1986
M21-A03B	. Sheet mills
	1986
M21-A04	Feeding devices for mills
M21-A05	Coilers, take-offs and cooling beds
M21-A05A	. Descaling
	2002
M21-A06	Rolling lubricants
M21-A07	Control mechanisms and processes Including speed, tension, width, thickness, etc.
	1986
M21-B	PRODUCTION OF METAL SHEET, WIRE ROD, TUBE OR PROFILE OTHER THAN BY ROLLING
M21-B	General
M21-B01	Metal drawing
M21-B01A	. Processes
	1986
M21-B01B	. Equipment Including dies, holders, mandrels, tools, etc.
	1986
M21-B02	Metal extrusion
M21-B02A	. Processes
	1986
M21-B02B	. Auxiliary processes Including feeding and take off, heating of tools and containers, etc.
	1986
M21-B02C	. Equipment
	1986

M21-B02D	. Control devices, regulating devices etc.
	1986
M21-B03	Metal working lubricants
M21-B04	Tube bending, expanding etc.
	1972
M21-C	PRODUCTION OF SEAMED, FINNED OR RIBBED TUBE
M21-C	General
M21-D	HIGH ENERGY RATE FORMING
M21-D	General Includes explosive forming
M21-E	WORKING SHEET METAL
M21-E	General
M21-E01	Bending, corrugating, flanging, straightening
M21-E02	Punching, stamping and pressing
M21-E03	Deep drawing, spinning, stretch forming
M21-E04	Making sheet metal structures
	1972
M21-F	WORKING WIRE
M21-F	General
M21-G	PRODUCTION OF PINS, NEEDLES, NAILS, FASTENERS
M21-G	General
M21-H	MAKING SPECIFIC ROLLED PRODUCTS
M21-H	General
M21-H01	Making sheet metal structures Of specified cross-section e.g. H-beam, I-beam
	2002
M21-J	FORGING, HAMMERING, PRESSING, RIVETING
M21-J	General
M21-J01	Processes
	1986
M21-J02	Equipment Including hammers, forging presses
	1986
M21-J03	Control devices
	1986
M21-K	MAKING SPECIFIC FORGED OR PRESSED PRODUCTS
M21-K	General
M21-L	CHAIN MAKING
M21-L	General

M21-M	CONTROL, TESTING	
M21-M	General	
	See M21-A01 for specific rolling method	
M21-N	ANCILLARY EQUIPMENT	
M21-N01	Feed and take-off equipment	1972
M21-N02	Manipulators	1972
M21-N03	Safety devices	1972
M21-N04	Furnaces, cooling beds	1972
M21-N05	Cutting	
	Including methods	2002
M21-N	General and unclassified	1972

## M22 CASTING, POWDER METALLURGY

M22-A	FOUNDRY MOULDING	
M22-A	General	
M22-A01	Mould or core composition	
M22-A02	Inorganic binders	
M22-A03	Organic binders	
M22-A04	Surface coating mould release compositions	
M22-B	MOULD MATERIAL HANDLING/ DRESSING	
M22-B	General	
M22-B01	Mixing, grinding, kneading	
M22-B02	Sieving, separating, reclaiming	
M22-B03	Cooling or drying	
M22-C	PATTERNS	
M22-C	General	
M22-C01	Lost patterns	
M22-C02	Plates and core boxes	
M22-D	MOULD/CORE DESIGN/PRODUCTION	
M22-D	General	
M22-E	MACHINES FOR MOULD/CORE MAKING	
M22-E	General	
	Used in place of M22-F	
M22-F	MOULDING MACHINES	
M22-F	General	
	See also M22-E	
M22-G	METAL CASTING	
M22-G	General	
M22-G01	Casting pigs for remelting, etc.	
M22-G02	Casting ingots for subsequent rolling, forging	
M22-G02A	. Ingot casting methods	
M22-G02B	. Ingot moulds, hot tops and linings	
M22-G03	Casting machines and processes	
M22-G03A	. Continuous and line casting	
M22-G03A1	.. Moulds	1977
M22-G03A1A	... Roll	2002
M22-G03A1B	... Endless belt	2002

M22-G03A2	.. Withdrawal equipment	1977	M22-G03K2	.. Internal combustion engine components Includes blocks, cylinder heads and bores	2002
M22-G03A3	.. Cooling	1977			
M22-G03A4	.. Tundish	2002	M22-G03L	. Directional solidification	2002
M22-G03B	. Centrifugal		M22-G03L1	.. Single crystals	2002
M22-G03C	. Chill				
M22-G03C1	.. Using moulds or cores with high thermal conduct	1986	M22-G03M	. Rapid solidification processes (RSP's)	2002
M22-G03D	. Die		M22-G03M1	.. Metallic glasses	2002
<suM22-G03D1	.. Methods	2002	M22-G03N	. Investment casting	2002
M22-G03D2	.. Apparatus	2002			
M22-G03E	. Vacuum and low pressure casting		M22-H	POWDER METALLURGY	
M22-G03F	. Other methods		M22-H	General	
M22-G03G	. Ladles, casting furnaces and equipment		M22-H01	Metal powders, granulates, fibres production Includes production of suspensions when details of the metal powder production are given.	
M22-G03G1	.. Nozzles, stoppers	1977	M22-H02	Powder treatment prior to use	
M22-G03G2	.. Linings Includes repair	1977	M22-H03	Sintered articles, coating manufacture	
M22-G03G2A	... Sacrificial	2002	M22-H03A	. Compacting	
M22-G03G2B	... Permanent	2002	M22-H03B	. Sintering	
M22-G03G3	.. Dies, moulds etc. (other than for foundry casting)	1986	M22-H03C	. Compacting and sintering	
M22-G03G4	.. Treatment of metal in the mould while it is molten or ductile (by shaking, vibrating, using magnetic or electric fields etc.)	1986	M22-H03D	. Fibre reinforcement	
M22-G03G5	.. Mould furniture Includes dams, weirs, etc.	2002	M22-H03E	. Post treatment/impregnation	
M22-G03G6	.. Filters	2002	M22-H03F	. Composite layers, materials	
M22-G03H	. Fettling and post-treatment of castings See M24-D02 and M29-C for thermal treatment		M22-H03F1	.. Metal matrix composites (MMC's)	2002
M22-G03J	. Control/testing of casting	1977	M22-H03F2	.. Ceramic matrix composites (CMC's)	2002
M22-G03K	. Making specific cast products	1977	M22-H03G	. Powder metal products	1972
M22-G03K1	.. Turbine components	2002			
M22-G03K1A	... Aerospace	2002			
M22-G03K1B	... Power generation	2002			



**M23 SOLDERING, WELDING**

M23-A	SOLDERING, BRAZING	
M23-A	General	
M23-A01	Metal compositions	
M23-A02	Flux	
M23-A03	Apparatus	
M23-A04	Methods	1986
M23-B	FLAME WELDING	
M23-B	General	
M23-B01	Torches, burners, gas supply	
M23-B02	Machines and methods	
M23-C	FLAME CUTTING AND SCARFING	
M23-C	General	
M23-D	ELECTRIC WELDING AND CUTTING	
M23-D	General	
M23-D01	Arc welding/cutting, plasma arc	
M23-D01A	. Methods	1972
M23-D01A1	.. Seam welding	1986
M23-D01A2	.. Build up welding	1986
M23-D01A3	.. Submerged arc welding	1986
M23-D01A4	.. Specially adapted for particular articles	1986
M23-D01B	. Apparatus and circuits	1972
M23-D01B1	.. Torches, nozzles, holders	1977
M23-D01B2	.. Flux, gas, wire feed	1977
M23-D01B3	.. Circuits	1986
M23-D01B4	.. General apparatus	1986
M23-D01C	. Arc welding types	2002
M23-D01C1	.. Tungsten inert gas (TIG) E.g. Gas tungsten-inert gas (GTAW), tungsten arc gas shield (TAGS)	2002
M23-D01C2	.. Metal inert gas (MIG) E.g. Metal arc gas shield (MAGS)	2002
M23-D01C3	.. Manual metallic arc (MMA)	2002
M23-D01C4	.. Plasma	2002

M23-D02	Resistance welding	
M23-D02A	. Methods	1972
M23-D02A1	.. Butt welding	1986
M23-D02A2	.. Seam welding	1986
M23-D02A3	.. Spot welding	1986
M23-D02A4	.. Other processes	1986
M23-D02A5	.. Specially adapted for particular work	1986
M23-D02B	. Apparatus and circuits	1972
M23-D02B1	.. Circuits	1986
M23-D02B2	.. General apparatus	1986
M23-D03	Induction heating	
M23-D04	Electron beam	
M23-D05	Laser beam	
M23-D06	Spark erosion	
M23-D07	Electroslag welding	1972
M23-E	OTHER WELDING AND CUTTING PROCESSES	
M23-E01	Forge or friction welding	1994
M23-E02	Alumino-thermic and explosive welding	
M23-E03	Hard facing, general	1972
M23-E	Unclassified and general	
M23-F	WELDING RODS, ELECTRODES AND FLUXES	
M23-F	General	
M23-G	INSPECTION AND CONTROL METHODS	
M23-G	General	
M23-H	ANCILLARY EQUIPMENT	
M23-H	General Includes equipment for cleaning welding devices	
M23-J	SPECIAL WELDING FEATURES	1972
M23-J	General	

## M24 METALLURGY OF IRON AND STEEL

M24-A	MANUFACTURE OF IRON AND STEEL	
M24-A01	Treatment of iron ores and materials	
M24-A01A	. Roasting, briquetting and sintering	1986
M24-A01B	. Treatment of cokes Including coke ovens	1986
M24-A02	Blast furnace pig manufacture	
M24-A02A	. By applying additives (fluxing agents etc.)	1986
M24-A02B	. Making slags of special composition	1986
M24-A02C	. General	1986
M24-A03	Sponge iron or liquid steel production	
M24-A04	Metallothermic processes	
M24-A05	Apparatus for iron/steel production	
M24-A05A	. Linings	1986
M24-A05B	. Cooling devices	1986
M24-A05C	. Discharge devices	1986
M24-A05D	. Tuyeres	1986
M24-A05E	. Stoves for heating blast	1986
M24-A05E1	.. Preheating, cooling or drying hot blast	1986
M24-A06	Analysis, control and laboratory methods for refining	
M24-A07	Scrap and slag treatment	1972
M24-A07A	. Working up flue dust and scrap	1986
M24-A07B	. Working up slag	1986
M24-A	Other processes	

M24-B	PROCESSING IRON AND STEEL	
M24-B01	Processing iron, (to produce)	
M24-B01A	. Pig iron	
M24-B01B	. Cast iron	
M24-B01C	. Wrought iron	
M24-B02	Processing steels, (by)	
M24-B02A	. Crucible process	
M24-B02B	. Hearth process	
M24-B02C	. Converter process	
M24-B02D	. Electro process	
M24-B02E	. Specified but unclassified	
M24-C	TREATMENT OF IRON AND STEEL MELTS	
M24-C01	Dephosphorising; desulphurising	
M24-C02	Killing	
M24-C03	Balancing	
M24-C04	Removing other impurities	
M24-C05	Inoculation and spheroidising	
M24-C06	Decarburising	1986
M24-C07	Use of slags or fluxes as treating agents	1986
M24-C08	Alloying of ferrous melts	1986
M24-C09	Apparatus for treatment of melts Including lances, nozzles, stirrers, etc.	1986
M24-C	General	

M24-D	CHANGING PHYSICAL PROPERTIES IRON STEEL	M24-E	CONTROL/TESTING METHODS
M24-D	General	M24-E	General
M24-D01	Mechanical working	M24-F	IMPROVING SPECIFIED MECHANICAL PROPERTIES
M24-D01A	. Hot working	M24-F	General
M24-D01A1	.. Rolling		2002
	2006	M24-F01	Creep resistance
M24-D01B	. Cold working		2002
M24-D01B1	.. Rolling	M24-F02	Fatigue resistance
	2006		2002
M24-D01C	Mechanical alloying	M24-F03	Tensile strength
	2002		2002
M24-D02	Heat treatment, general	M24-F04	Fracture toughness (crack resistance)
M24-D02A	. Hardening treatments E.g. tempering, surface hardening		2002
	1986	M24-F05	Stress corrosion cracking resistance
M24-D02B	. Annealing Including normalising, stress relieving, etc.		2002
	1986	M24-F06	Ductility
			2002
M24-D02C	. Using heat treatment baths i.e. salt baths, oil baths, metal baths and fluidised beds		
	1986		
M24-D02D	. Multistage processes		
	1986		
M24-D03	Heat treatment of specific articles		
M24-D04	Heat treatment apparatus		
M24-D04A	. Furnaces for ingots e.g. soaking pits		
	1986		
M24-D04B	. Furnaces for treating strip, wire or sheet		
	1986		
M24-D04C	. Furnaces, coilers		
	1986		
M24-D04D	. Other furnaces		
	1986		
M24-D04E	. Quenching baths		
	1986		
M24-D04F	. Multistage processes		
	1986		
M24-D05	Removal of non-metals by diffusion		
M24-D06	Special physical methods E.g. peening		
	1972		
M24-D07	Process control or regulation for heat treatment		
	1986		

## M25 NON-FERROUS METAL PRODUCTION/REFINING

M25-A	GENERAL ORE TREATMENT	
M25-A01	Concentration	
M25-A01A	. By dry methods	1986
M25-A01B	. By wet methods Including flotation	1986
M25-A02	Crushing, roasting, briquetting, sintering	
M25-A	Other processes	
M25-B	WET EXTRACTION OF METALS AND METAL COMPOUNDS	
M25-B	General	
M25-B01	Precipitation as an insoluble compound E.g. hydrolysis	1986
M25-B02	Reduction with hydrogen or metal causing metal precipitation from solution	1986
M25-B02A	. Using metal chlorides E.g. for Ti production	2002
M25-B03	Ion exchange Including absorption on resin	1986
M25-B04	Solvent extraction i.e. complexing by organic reagents	1986
M25-C	DRY REDUCTION TO METAL	
M25-C	General	
M25-C01	Apparatus	1972
M25-C02	Methods	1972
M25-D	REDUCTION OF METAL CARBONYLS	
M25-D	General	
M25-E	WORKING UP SCRAP, FLUE DUST OR SLAG	
M25-E	General	
M25-E01	Working up waste water, slurry or sludge	1986
M25-E02	Working up scrap, flue dust or slag	2002

M25-F	REFINING BY OTHER METHODS	
M25-F	General	
M25-F01	Vacuum refining	2005
M25-F02	Bioremediation using microorganisms	2005
M25-F03	Phytoremediation and phytomining	2005
M25-F04	Low gravity and zero gravity processing	2005
M25-G	OBTAINING SPECIFIC METALS	
M25-G	General	
M25-G01	Aluminium	
M25-G02	Antimony	
M25-G03	Arsenic	
M25-G04	Alkali metal	
M25-G05	Alkaline earth metal	
M25-G06	Beryllium	
M25-G07	Bismuth	
M25-G08	Copper	
M25-G09	Cadmium	
M25-G10	Chromium	
M25-G11	Cobalt	
M25-G12	Germanium	
M25-G13	Indium	
M25-G14	Lead	
M25-G15	Mercury	
M25-G16	Magnesium	
M25-G17	Manganese	
M25-G18	Molybdenum	
M25-G19	Nickel	
M25-G20	Noble metals Excluding Ag - see M25-G22	
M25-G21	Rare earths	
M25-G22	Silver	
M25-G23	Tin	
M25-G24	Titanium	
M25-G25	Uranium	
M25-G26	Vanadium	
M25-G27	Zinc	
M25-G28	Other metals	

M25-H	ANALYSIS, CONTROL AND LABORATORY METHODS	
M25-H	General	
M25-J	APPARATUS FOR NON-FERROUS METAL PRODUCTION	1972
M25-J	General	
M25-X	OTHER NON-FERROUS METAL PROCESSING	
M25-X	General and unclassified	1986

## M26 NON-FERROUS ALLOYS

The following terminal code letters may be used to indicate important alloying elements: A = Al, Sb, As; B = Ba, Bi, Be, B; C = C, Cu, Cd, Cr, Co, Ca; H = H; J = In, Fe; L = Li, Pb; M = Hg, Mg, Mn, Mo; N = N, Ni, noble metals, Nb; O = O; P = K, P; R = Rare earth metals; S = Si, Na, S; T = Ta, Sn, Th, Ti, W; U = U; V = V; Z = Zn, Zr; X = other specified elements.

M26-A	ALLOY PRODUCTION	
M26-A01	By melting	
M26-A02	By pressing or sintering	
M26-A03	Removing material from alloys to produce different alloys	
M26-A04	Mechanical alloying	2002
M26-A	By other methods	
M26-B	ALLOYS BASED ON PARTICULAR METALS	
M26-B01	Noble metal	
M26-B02	Mercury E.g. amalgams	
M26-B03	Copper	
M26-B04	Lead	
M26-B05	Tin	
M26-B06	Titanium or zirconium	
M26-B07	Zinc or cadmium	
M26-B08	Nickel or cobalt	
M26-B09	Aluminium	
M26-B10	Magnesium	
M26-B11	Beryllium	
M26-B12	Hard alloys based on carbides, nitrides, borides, silicides, etc.	
M26-B13	Based on other high melting or refractory metals	
M26-B14	Lithium	2002
M26-B15	Gallium	2002
M26-B16	Rare earth metals	2002
M26-B	General and others	
M26-C	SPECIAL ALLOYS	
M26-C01	Amorphous alloys, glassy	2002
M26-C02	Nanophase alloys (nanocrystalline)	2002
M26-C03	Shape memory	2002

## M27 FERROUS ALLOYS

Used in preference to codes in the M24 section when a specific iron alloy or steel is concerned. The following terminal code letters may be used to indicate important alloying elements: A = Al, Sb, As; B = Ba, Bi, Be, B; C = Cu, Cd, Cr, Co, Ca; J = In, Fe; L = Pb; M = Hg, Mg, Mn, Mo; N = Ni, noble metals, Nb; P = K, P; S = Si, Na, S; T = Ta, Sn, Ti, W; U = U; V = V; Z = Zn, Zr; X = other specified elements.

M27-A	ALLOYS	
M27-A01	Production	
M27-A02	Master alloys	
M27-A03	Cast iron alloys >2 wt. % C	
M27-A04	Steel alloys	
M27-A	Other alloys	
M27-B	TREATMENT	
M27-B01	Production	1970-2009
M27-B02	Master alloys	
M27-B03	Cast iron alloys	
M27-B04	Steel alloys	
M27-B	Other alloys	
M27-C	CARBON STEEL For C contents above 2 wt.%, see M27-A03	
M27-C01	Ultra-low C content (<0.03 wt. %)	2002
M27-C02	Low C content (0.03-0.3 wt.%)	2002
M27-C03	Medium C content (0.3-0.7 wt.%)	2002
M27-C04	High C content (0.7-1.7 wt.%)	2002
M27-D	SPECIAL ALLOYS	
M27-D01	Stainless steels	2002
M27-D02	Mechanically alloyed	2002

## M28 ELECTROLYTIC/ ELECTROTHERMIC PRODUCTION/REFINING METALS

M28-A	METALS, ALLOYS BY SOLUTION ELECTROLYSIS	
M28-A	General Including Hall-Heroult process for Al production	
M28-B	METALS, ALLOYS BY FUSED ELECTROLYTE ELECTROLYSIS	
M28-B	General	
M28-C	ELECTROLYTIC CELL PRODUCTION	
M28-C	General	
M28-C01	Electrodes	1986
M28-C02	Operating and servicing	1986
M28-C03	Construction and assembly of cells	1986
M28-D	METAL POWDER OR POROUS METAL BY ELECTROLYSIS	
M28-D	General	
M28-E	ELECTROTHERMIC TREATMENT ORES, METALS, ALLOYS	
M28-E	General	
M28-F	OTHER ELECTRICAL METAL REFINING PROCESSES	
M28-F	General and unclassified	

## M29 CHANGING PHYSICAL STRUCTURE NON-FERROUS METALS ALLOYS

M29-A	MECHANICAL WORKING, HOT	
M29-A	General	
M29-B	MECHANICAL WORKING, COLD	
M29-B	General	
M29-C	HEAT TREATMENT	
M29-C	General	
M29-C01	Of specific articles	1972
M29-C02	Apparatus	1972
M29-D	SPECIAL PHYSICAL METHODS	
M29-D	General	
M29-E	OTHER NON-FERROUS METAL TREATMENT AND TESTING	
M29-E	General and unclassified (including testing non-ferrous alloys)	1994
M29-F	IMPROVING SPECIFIED MECHANICAL PROPERTIES	
M29-F	General	2002
M29-F01	Creep resistance	2002
M29-F02	Fatigue resistance	2002
M29-F03	Tensile strength	2002
M29-F04	Fracture toughness (crack resistance)	2002
M29-F05	Stress corrosion cracking resistance	2002
M29-F06	Ductility	2002





## N:

### CATALYSTS

N01	Alkali(ne) Earth Metal, B, A, Si: Element, (Hydr)oxide Inorganic Salt, Carboxylate
N02	Fe, Co, Ni, Cu, Noble Metal: Element, (Hydr)oxide, Inorganic Salt, Carboxylate
N03	Other Metal, As: Element, (Hydr)oxide, Inorganic Salt, Carboxylate
N04	C, N, O, P, S, Se, Te, Halogen: Element, Inorganic Compound
N05	Metal Hydride, Co-ordination Complex, Organic Compound excluding Carboxylate
N06	Molecular Sieve, Zeolite, Special Form, General
N07	Catalyst Application and Uses



## N: CATALYSTS

Any catalysts mentioned in an abstract in Section B, C, D, E, H, J, K, L, M are coded in Section N according to their chemical composition; while absorbents, non-catalytic reactants and unspecified 'acidic' or 'basic' catalysts are not coded though these latter may receive a general (N06) code. If catalysts (as chemical compounds) are claimed, they are also coded in Section E unless they are metallic elements or polymers.

### Note

1. Catalysts or supports are coded in both sections E and N if they are novel, and from 199401 they also receive the code N06-F. Those supports which are not novel but form a significant part of the invention code N06-F only, commencing 199401.
2. The term carboxylate also includes the monothio or dithio compound.
3. The terms alkoxide and aryl oxide also include the thio compounds.
4. When a specific code is searched, the corresponding generic code(s) (used for general disclosures which would otherwise require several specific codes) must also be searched for complete coverage.

Section N codes commenced at 197701.

## N01 ALKALI(NE EARTH) METAL, B, AL, Si: ELEMENT, (HYDR)OXIDE, INORGANIC SALT, CARBOXYLATE

N01	GENERAL	
N01-A	Alkali metal - general	
N01-A01	. Na or K	
N01-B	Alkaline earth metal	
N01-C	Aluminium - general	
N01-C01	. Alumina-silica mixture Excluding zeolite.	1977-1993 <i>Now coded as: N01-C01A, N01-C01B</i>
N01-C01A	.. Alumina-silica mixture, aluminosilicates, clays May contain alkali(ne) earth metals only.	1994 <i>Previous code(s): N01-C01</i>
N01-C01B	.. Aluminosilicates containing/ exchanged/loaded with section N02, N03 metals Where appropriate, the section N02+, N03 metal code(s) are also assigned.	1994 <i>Previous code(s): N01-C01</i>
N01-C02	. Alumina Excluding N01-C01A, N01-C01B.	1977
N01-C03	. Aluminium and other Aluminium compounds not zeolites, aluminosilicates or alumina	2002
N01-D	B or Si Excluding N01-C01.	1977-1993 <i>Now coded as: N01-D01, N01-D02, N01-D02A</i>
N01-D01	. Boron compounds (including non-zeolite borosilicates)	1994 <i>Previous code(s): N01-D</i>
N01-D02	. Silica, silicates Excluding B and Al.	1994 <i>Previous code(s): N01-D</i>
N01-D03	. Other silicon compounds	1994 <i>Previous code(s): N01-D</i>

**N02 Fe, Co, Ni, Cu, NOBLE METAL:  
ELEMENT, (HYDR)OXIDE,  
INORGANIC SALT, CARBOXYLATE**

N02	GENERAL	
N02-A	Iron - general	
N02-A01	. Element or oxide	
N02-B	Cobalt - general	
N02-B01	. Element or oxide	
N02-C	Nickel - general	
N02-C01	. Element	
N02-D	Copper - general	
N02-D01	. Element, oxide or sulphide	
N02-E	Ru, Rh, Os, Ir, Ag, Au - general	
N02-E01	. Ru	1994
	<i>Previous code(s): N02-E</i>	
N02-E02	. Rh	1994
	<i>Previous code(s): N02-E</i>	
N02-E03	. Ag	1994
	<i>Previous code(s): N02-E</i>	
N02-E04	. Os,Ir,Au	1994
	<i>Previous code(s): N02-E</i>	
N02-F	Pd or Pt - general	
N02-F01	. Element on carbon	
N02-F02	. Element Excluding N02-F01.	
N02-F03	. Palladium inorganic salt	2006
N02-F04	. Palladium Carboxylate	2006
N02-F05	. Platinum inorganic salt	2006
N02-F06	. Platinum Carboxylate	2006

**N03 OTHER METAL, AS: ELEMENT,  
(HYDR)OXIDE, INORGANIC SALT,  
CARBOXYLATE**

N03	GENERAL	
N03-A	Sc, Y, Lanthanoid, Fr, Ra, Actinoid	
N03-A01	. Sc, Y, La	2006
	<i>Previous code(s): N03-A</i>	
N03-A02	. Lanthanides – general	2006
	<i>Previous code(s): N03-A</i>	
N03-A02A	.. Ce	2006
	<i>Previous code(s): N03-A</i>	
N03-A02B	.. Other Lanthanides	2006
	<i>Previous code(s): N03-A</i>	
N03-A03	. Ra, Th	2006
	<i>Previous code(s): N03-A</i>	
N03-B	Ti, Zr, Hf - general	
N03-B01	. Ti	1994
	<i>Previous code(s): N03-B</i>	
N03-B01A	.. Ti – Element, (hydr)oxide, including titanitic acids	2006
	<i>Previous codes(s): N03-B01</i>	
N03-B02	. Zr, Hf	1994
	<i>Previous code(s): N03-B</i>	
N03-C	V, Nb, Ta, W - general	
N03-C01	. V	1994
	<i>Previous code(s): N03-C</i>	
N03-C02	. W	1994
	<i>Previous code(s): N03-C</i>	
N03-C03	. Nb,Ta	1994
	<i>Previous code(s): N03-C</i>	
N03-D	Cr, Mo - general	
N03-D01	. Cr	1994
	<i>Previous code(s): N03-D</i>	
N03-D02	. Mo	1994
	<i>Previous code(s): N03-D</i>	
N03-E	Mn, Tc, Re	
N03-F	Zn, Cd, Hg	
N03-F01	. Zn	2006
	<i>Previous code(s): N03-F</i>	

N03-F02	. Cd, Hg
	<i>Previous code(s): N03-F</i>
N03-G	Ga, In, Tl, Ge, Sn, Pb
N03-G01	. In
	<i>Previous code(s): N03-G</i>
N03-G02	. Ge
	<i>Previous code(s): N03-G</i>
N03-G03	. Sn
	<i>Previous code(s): N03-G</i>
N03-G04	. Ga, Tl, Pb
	<i>Previous code(s): N03-G</i>
N03-H	As, Sb, Bi, Po

2006 **N04 C, N, O, P, S, Se, Te, HALOGEN:  
ELEMENT, INORGANIC  
COMPOUND**

2006	N04	GENERAL
	N04-A	C (excluding N02-F01), N, O, H <sub>2</sub> O, H <sub>2</sub> O <sub>2</sub> , Se, Te, noble gas
2006	N04-B	P
	N04-C	S
2006	N04-D	Halogen - general
	N04-D01	. Metal halide

2006 **N05 METAL HYDRIDE, CO-  
ORDINATION COMPLEX,  
ORGANIC COMPOUND  
EXCLUDING CARBOXYLATE**

	N05	GENERAL
	N05-A	H, metal hydride; metal-alkoxide, -aryl-oxide, -alkyl, -aryl
	N05-B	Carbonyl complex, pi-bond complex
	N05-C	Other co-ordination complex
	N05-D	Amine, quaternary ammonium, heterocyclic
	N05-E	Other organic compound - general
	N05-E01	. B, Si, P, As, Se, Te, metal present
		1986
	N05-E02	. S present
		1986
	N05-E03	. Other compound
		1986
	N05-E03A	. Organic resin
		2010

## N06 MOLECULAR SIEVE, ZEOLITE, SPECIAL FORM, GENERAL

N06	GENERAL	
N06-A	Molecular sieve; zeolite containing Al with no other metal than alkali(ne earth)	
N06-B	Other zeolite, general	
N06-B01	. Boro- or metallo-aluminosilicates	1994
	<i>Previous code(s): N06-B</i>	
N06-B02	. High silica zeolites e.g. Silicalites.	1994
	<i>Previous code(s): N06-B</i>	
N06-B03	. Phosphate- or silicophosphate-based molecular sieves	2002
N06-C	Special Catalyst form - unclassified e.g. Raney Nickel.	
N06-C01	. Raney catalysts, alloys e.g. Raney Ni.	2002
N06-C02	. Catalytic (coated) electrodes	2002
N06-C03	. Catalytic membranes, diaphragms	2002
N06-C04	. Homogenous, soluble or liquid phase catalysts	2002
N06-C05	. Fixed bed catalysts	2002
N06-C06	. Moving, fluidised bed catalysts (attrition resistant)	2002
N06-C07	. Nets, meshes, gauzes, frameworks	2002
N06-C08	. Bodies or particles with special shape or form	2002
N06-C09	. Nanocatalyst	2010
N06-D	Catalytic apparatus, testing, detection, determination	
N06-E	Catalyst preparation, recovery, regeneration - gen.	
N06-E01	. Catalyst preparation, activation, pretreatment	2002
N06-E02	. Catalyst regeneration, reactivation	2002
N06-E03	. Catalyst recovery (metals, values, ligands)	2002

## N06-F

### Catalyst support

Indicates that a feature of the catalyst support (e.g. composition/preparation/properties) forms a significant aspect of the invention. As well as the code N06-F, novel catalyst supports also receive appropriate codes from sections E and N, whereas non-novel catalyst supports code N06-F only.

1994

## N06-G

### Catalyst promoter

Includes catalyst accelerator.

2010

## N07 Catalyst Applications and Uses

1. Used in addition to the N01-N06 codes for process patents
2. Can be used without N01-N06 codes, when catalytic process is defined, but catalyst is unspecific e.g. "acid catalyst".
3. Codes N07-A to N07-K relate to Catalytic Reactions whereas code N07-L relate to Other Catalytic Applications and Uses.

N07	GENERAL, UNCLASSIFIED, NO SPECIFIC REACTION REPORTED	2002
N07-A	Catalytic Reactions, General	2002
N07-B	Hydrogenation, hydrogenesis, reduction	2002
N07-B01	. Hydrogenation of unsaturated C-C bonds	2006
N07-B02	. Hydrogenation other	2006
N07-C	Oxidation, dehydrogenation - general or unclassified	2002
N07-C01	. Oxidation with O <sub>2</sub> , air	2002
N07-C02	. Dehydrogenation of C-C bonds	2006
N07-C03	. Other Oxidation, Dehydrogenation process	2006
N07-D	Addition/substitution reactions - general or unclassified	2002
N07-D01	. Oligomerisation, telomerisation	2002
N07-D02	. Addition reactions of CO and/or CO <sub>2</sub> : general or unclassified	2002
N07-D02A	.. Addition of CO to olefinic bonds: oxo reaction, hydroformylation, etc.	2002
N07-D02B	.. Other addition reactions of CO(2)	2002
N07-D03	. Alkylation, arylation, acylation of C- Atoms	2002
N07-D04	. Condensation reactions; other C-C chain extension	2002
N07-D05	. Hydration, hydroxylation	2002
N07-D06	. Etherification, acetalisation, O-alkylation	2002

N07-D07	. Esterification, O- acylation, anhydride formation	2002
N07-D08	. Addition of nitrogenous functions - general or unclassified	2002
N07-D08A	.. Amination, N- alkylation, N-acylation	2002
N07-D08B	.. Ammonoxidation (ammonia-oxidation) of organics (oxidn. of NH <sub>3</sub> , see N07-J, inorganic reactions )	2006
N07-D08C	.. Nitration	2006
N07-D09	. (Hydro)halogenation	2002
N07-D10	. Addition of sulphur functions, e.g. sulphonation	2002
N07-D11	. Addition of boron, silicon, phosphorus and other functions	2010
N07-D11A	.. Addition of boron functions	2010
N07-D11B	.. Addition of silicon functions	2010
N07-D11C	.. Addition of phosphorus functions	2010
N07-D11D	.. Addition of other functions	2010
N07-E	Isomerisation and exchange reactions - general or unclassified	2002
N07-E01	. Isomerisation, metathesis, disproportionation of olefinic compounds	2002
N07-E02	. Isomerisation reactions of other hydrocarbons; reforming	2002
N07-E03	. Transesterification, ether/acetal exchange	2002
N07-E04	. Racemisation	2002
N07-F	Elimination/cleavage reactions - general or unclassified	2002
N07-F01	. Decarboxylation, decarbonylation	2002
N07-F02	. Dealkylation, cracking, depolymerisation, other C-C bond	2002
N07-F03	. De(hydro)halogenation	2002
N07-F04	. Ring expansion, contraction cleavage	2002
N07-F05	. Chain Expansion/Contraction	2006

N07-F06	. Hydrolysis, dehydration, dehydroxylation	2010	N07-L02B	.. Removal/treatment of sulphur (compounds)	2002
N07-F06A	.. Hydrolysis	2010	N07-L02C	.. Removal/treatment of nitrogen (compounds)	2002
N07-F06B	.. Dehydration, dehydroxylation	2010	N07-L02D	.. Removal/treatment of carbon (compounds)	2002
N07-F07	. Cyclisation	2006	N07-L02E	.. Removal/treatment of metal (compounds)	2002
N07-F08	. Decyclisation	2006	N07-L02F	.. Removal/treatment of other impurities/compounds	2002
N07-F09	. Elimination/cleavage of N functions	2010	N07-L03	. Other processes/uses; general	2002
N07-G	Electrocatalytic reactions	2002	N07-L03A	.. Batteries, fuels cells	2002
N07-H	Catalyst use in the production of organometallic compounds and metal complexes	2002	N07-L03B	.. Detection processes Detection process where catalyst is used as part of detecting agent.	2010
N07-J	Catalyst use in the production of inorganics	2002			
N07-K	Other chemical reactions	2002			
N07-K01	. Catalyst for Green Chemistry Catalyst used in a chemical process where minimum or no by-products are generated . To be used in addition to other required N codes. See also E11-K03 and/or E11-W.	2010			
N07-L	Other catalyst applications and uses - unclassified	2002			
N07-L01	. Purification/waste disposal processes - unclassified	2002			
N07-L01A	.. Catalytic combustion/oxidation of waste	2002			
N07-L01B	.. Water purification; wastewater treatment	2002			
N07-L01C	.. Gas purification; waste gas treatment	2002			
N07-L01C1	... Engine exhaust treatment	2002			
N07-L01D	.. Purification, (hydro)treatment of non-gaseous hydrocarbons	2002			
N07-L01E	.. Purification of other substances	2002			
N07-L02	. Removal/treatment of impurities/compounds - general	2002			
N07-L02A	.. Removal/treatment of halogen (compounds)	2002			







# APPENDIX 1

## Nanotech Codes



## Appendix 1 – NANOTECHNOLOGY

This appendix is designed as a quick reference guide for all manual codes across the chemistry, life sciences and engineering technologies that relate to Nanotech industries.

For full details please look up the relevant code in the applicable manual. Classes A-N are covered by the CPI manual and section P-X by the EPI manual.

Note – Items in italics are of nanotech interest but may contain details not applicable to nanotech.

### FULLERENES

containing heteroatoms	E05-U01
carbon only	E05-U02
	L02-H04B

### NANOCATALYSTS

N06-C09

### NANOCRYSTALS (non-ferrous alloys)

M26-C02

### NANOELECTROMECHANICAL DEVICE/SYSTEM

actuators	V06-M06G9
control	V06-N22A
electronic switching	U21-B01T
generators	V06-M06G8A
medical devices	S05-Y02
motors	V06-M06G9
control	V06-N22A
relays	V03-D10A
resonators	V06-V01E
	V06-V01K2
semiconductor device	U12-B03F2A
semiconductor structure	U12-B03F2
semiconductor structure, manufacture	U11-C18C
semiconductor system	U12-B03F2B
sensors	S03-H02B
	V06-V01K2
	V06-V04G
switches	V03-C10A
manufacture, testing and monitoring	V03-C07A
DNA switches	B11-C12
	C11-C12
transducers(audio)	V06-V01K2
	V06-V04A

**NANOELECTRONIC DEVICE/SYSTEM**

cathodes	
<i>image display</i>	V05-D05C5A
field emission device	V05-B05A5C
<i>general</i>	V05-M03A1
X-ray tube	V05-E01C7A
semiconductor structure, manufacture	U11-C13
	U12-E01B2
logic circuit	U21-C01T
sensors	S03-H02B

**NANOFILMS**

E31-U03  
B05-U05B  
C05-U05B

**NANOFILTERS**

J01-C04

**NANOHORNS**

B05-U05A  
C05-U05A

**NANOIMPRINTED MAGNETIC RECORD CARRIER**

manufacture

T03-A01G3  
T03-A02G3

**NANOIMPRINT LITHOGRAPHY**

U11-C04J

**NANOMATERIALS**

battery electrode	X16-E01H1
conductive	L03-A02G
	X12-D01D
electrolytes	X16-J01E
fuel cell electrode	X16-E06A1A
fuel cell storage	X16-C15C3A
general use	V04-X01B1
insulating, inorganic	X12-E01D
insulating, organic	X12-E02D
magnetic	V02-A10
magnetic, manufacture	V02-A10C
magnetic, novel	V02-A10A
structures	U11-A14
	U11-C13
production	J04-F02
wires	X12-D07E

**NANOMORPHOLOGY (color chemistry)**

pigment	E27-B01A
dye	E27-B02A
other color chemistry	E27-B03A

**NANOPARTICLES**

B12-M11Q  
C12-M11Q  
E31-U01

<b>NANOPARTICULATE PRODUCTION</b>	V05-F08G
<b>NANOPHASE ALLOYS</b>	M26-C02
<b>NANORELAYS</b>	U12-B03F2A V03-D10A V03-D06B1
manufacture	
<b>NANORODS</b>	B05-U05A C05-U05A E31-U02
<b>NANOSTRUCTURES</b>	
electrically-conductive (general)	X12-D02C2D
electrically-insulating (general)	X12-E03D
production	J04-F02
magnetic film	V02-B04
manufacture	V02-H02G
inorganic	B05-U06 C05-U06 E31-U
pharmaceutical (other)	B05-U05C C05-U05C
dye or pigment bound to nanostructure	E24-U
<b>NANOTECHNOLOGY</b>	
pharma applications (general)	B11-C12 C11-C12
polymers application (general)	A12-W14
<b>NANOTECHNOLOGY DEVICES</b> (therapeutic)	B12-M10A7 C12-M10A7
<b>NANOTUBES</b>	
carbon only	B05-U03A C05-U03A E05-U03 L02-H04B V05-B05A5C
carbon plus heteroatom	B05-U04 C05-U04 E05-U04
other 3D structures	B05-U05A C05-U05A
inorganic	E31-U02
<b>NANOWHISKERS</b>	
inorganic	E31-U02
organic	E05-U03





## APPENDIX 2

### Green Technology



## Appendix 2 - GREEN TECHNOLOGY

This appendix is designed as a quick reference guide for all manual codes across the chemistry, life sciences and engineering technologies that relate to “green technologies” such as: “green” transportation, e.g. hybrid, fuel cell and other zero emissions vehicles; alternative power sources such as wind and solar power; bio-fuels and any other technologies that enable control of pollution or reduction of carbon footprints.

For full details please look up the relevant code in the applicable manual. Classes A-N are covered by the CPI manual and section P-X by the EPI manual.

Note – Items in italics are of green interest but may contain details not applicable to green technologies.

### GREEN TRANSPORTATION

#### **aircraft, muscle/pedal power**

#### **battery charging**

for electric vehicle

for motor vehicle

for railway train

#### **bicycle**

#### **boat**

animal-drawn

canoe/kayak

electric propulsion

muscle/pedal power

wind (sail) power

#### **electric vehicle**

#### **foot propelled vehicles**

#### **fuel cell vehicle**

#### **hybrid vehicle**

hybrid-electric

hybrid-mechanical

parallel hybrid

series hybrid

#### **regenerative braking**

X21

Q25-C01G

X16-G02

X21-B01A

X22-F01A

X23-A03C

Q19-A

X22-P01

Q24

Q24-E02G

Q24-P20

W06-B01C6

Q24-E01G

Q24-E01E

Q24-P22

Q19-P

X21-A01F

Q22-M

X21-A01J

Q19-Q

X21-A01D

X22-P04

Q19-Q01

X22-P04A

Q19-Q05

X22-P04E

X21-A01D1

X21-A01D3

X13-F02

X21-A03C

## GREEN POWER SOURCES AND ENERGY GENERATION

### battery

catalysts  
for electric vehicle

### electricity generation

from biomass combustion  
from exercise machine  
  
from vehicle movement  
from waste fuel combustion

### flywheel energy storage

### fuel cell

catalysts  
for vehicle  
  
polymer details

### geothermal power

### hydroelectric power

dams  
generators  
mini/micro plant  
pumped storage  
turbines/water wheels

### muscle power

### ocean thermal energy conversion

### osmotic power

### profiting from waste heat

IC engine exhaust heat recovery  
IC engine waste heat recovery

### sea power

### salinic gradient power

### solar power

for electric vehicle  
for motor vehicle  
photoelectric cells  
solar collector  
solar panels

polymer details

### thermoelectric power

A12-W16  
X16  
N07-L03A  
X21-B01A  
X11-A08  
X11-C08  
X15-E  
W04-X01A5  
X15-X  
X15-X  
X15-E  
Q54-F  
X21-B04  
X16-C  
L03-E04  
N07-L03A  
X21-B01A  
X22-F01  
A12-E06  
Q54-H  
X15-G  
X15-F01A  
X15-F07C  
X15-F07B  
X15-F01A3  
X15-F01A1  
X15-F07A  
Q54-I  
Q54-X  
X15-F01C5  
X15-F01E  
X15-H  
Q51-J02F  
X22-A17  
X15-F01C  
X15-F01E  
Q54-H  
U12-A02  
X15-A  
X21-B04A  
X22-F03  
A12-E11B  
X15-A01  
U12-A02A5  
X15-A02B  
L03-E05B  
A12-R02B  
X15-D

<b>tidal power</b>	X15-F01C3
<b>water power</b>	X15-F
water turbine	Q54-A
generator	X15-F07A
<b>vortex power</b>	X15-F07B
<b>wave power</b>	X15-F01F
<b>wind power</b>	X15-F01C1
for boat	Q54-G
for electric vehicle	X15-B
for motor vehicle	Q24-E01E
	X21-B04A
	X22-F03

## GREEN FUELS

<b>biofuels</b>	B14-Y
produced from algae	C14-Y
<b>gaseous biofuels</b>	H06-A04
biogas	H06-A04
ethane	H06-A04
structural details	E10-J02D2
hydrogen	H06-A03
production by electrical means	E31-A02A
hydrogen generation-fuel cell	L03-E04I
hydrogen reformer-fuel cell	X16-C17
hydrogen storage-fuel cell	X16-C17
molecular decomposition of	X16-C15
hydrocarbons (plasmatron)	V05-F08F
methane	H06-A04
structural details	E10-J02D1
produced by fermentation	D05-C14
<b>liquid biofuels</b>	H06-B07
alcohol	H06-B08
bioalcohol	H06-B08
biodiesel	H06-B04A
bioether	H06-B07
butanol	H06-B08
ethanol	H06-B08
propanol	H06-B08
vegetable oil	H06-B04A
<b>solid biofuels</b>	
<i>from municipal/agricultural</i>	D05-A04A
waste treatment	H09-F03

**ENVIRONMENTAL AWARENESS**

<b>biodegradability</b>	A09-A07
<b>environmental vessel for collecting pollution from open water</b>	Q24-P06
<b>green agro-chemicals</b> (general)	C14-Y
<b>green catalysts</b>	N07-K01
<b>green chemistry</b> (general)	E11-K03
applications/compositions	E11-W
<b>green pharmaceuticals</b> (general)	B14-Y
<b>oil spillage cleanup</b>	H03-G
<b>waste containment</b>	
to prevent water contamination	D04-A05

**POLLUTION CONTROL/REDUCTION**

<b>catalytic combustion</b>	N07-L01A
<b>desulphurisation of coal</b>	H09-H02
<b>polymer application</b>	A12-W11
fuel vapour recovery for IC engine	Q51-H02
electrical details	X22-A02E
using coagulants/ flocculants or polyelectrolytes	A12-W11E
other	A12-W11F
<b>oil refinery</b>	H05-L
<b>polymer processing</b>	A11-C07
<b>waste gas treatment</b>	
catalyst details	N07-L01C
for engine exhaust	Q51-J02
	E11-Q02A
	N07-L01C1
	Q17-E09
	X22-A03J
removal of N oxides	E31-H02
catalytically	E31-H01
removal of S hydride, H <sub>2</sub> S	E31-F01B
removal of S oxide SO <sub>2</sub> , SO <sub>3</sub> , SO <sub>x</sub>	E31-F01A
removal of sulphur compounds	E31-F01
	N07-L02B
H <sub>2</sub> SO <sub>4</sub> , thiosulfate	E31-F01C

**WATER/WASTE TREATMENT**

	E11-Q02
	N07-L01
<b>industrial waste/effluent treatment</b>	H09-F02
	E11-Q02B
capacitor manufacture	
electrolytic	V01-B01G6E
non-electrolytic	V01-B04B8E
semiconductor manufacture	U11-C15Q
resistor manufacture	V01-A04R1
<b>municipal/agricultural waste treatment</b>	H09-F03
<b>polymer waste treatment</b>	A11-C07
<b>purification of non-gaseous hydrocarbons</b>	N07-L01D

<b>removal of materials/compounds</b>	
removal of carbon compounds	N07-L02D
removal of catalyst poisons	E11-Q02C
removal of impurities in general	N07-L02
removal of halogen compounds	N07-L02A
removal of metal compounds	N07-L02E
removal of nitrogen compounds	N07-L02C
removal of sulphur compounds	N07-L02B
removal of unwanted chemical reaction byproducts	E11-Q02C
<b>sewage treatment</b>	D04-A01J
	D04-B10
	D04-B11
	D05-A04A
electrical systems	X25-H03
incineration of sludge	D04-B10B
pyrolysis of sludge	D04-B10B
<i>organic waste, town waste or sludge fermentation</i>	D05-A04A
<b>waste disposal processes/purification</b>	N07-L01
catalytic combustion of waste	N07-L01A
<b>waste water treatment</b>	N07-L01B
	X25-H03
waste water from paper manufacture	F05-A02C
sewage sludge removal/treatment	D04-B10
electrical systems	X25-H03
dewatering sludge	D04-B10A
<b>water treatment</b>	D04-A01J
	N07-L01B
<i>compositions</i>	A11-W11J
removing coal slurry	D04-B03
removing hydrocarbons	D04-B03
removing impurities	D04-B
removing inorganic cyanides	D04-B07A
removing inorganic fluorine compounds and (thio)cyanates	D04-B07E
removing inorganic nitrogen compounds	D04-B07C
removing inorganic phosphorous	D04-B07B
removing inorganic sulphur compounds	D04-B07D
removing metals	D04-B05
heavy metals	D04-B05A
neutralising chromium	D04-B05A
removing lead	D04-B05A
removing mineral oil	D04-B03
removing natural products	D04-B04
clarification of water containing fat	D04-B04

removing organic materials	D04-B06
halohydrocarbons	D04-B06E
organic dyes/brighteners	D04-B06B
phenolic compounds	D04-B06A
polymers/monomers	D04-B06D
surfactants	D04-B06C
removing radioactive materials	D04-B07
	K07-B

## RECYCLING/RECOVERY OF MATERIALS

### **electrical recycling equipment**

X25-W04

### ***chemical extraction, recovery, purification***

E11-Q01

### **polymer scrap recovery/recycling**

A11-C03

### **recycling electrical components, equipment, and materials**

V04-X01G

AV equipment

L03-J01

battery materials

W03-G10C

X16-M

L03-E06

capacitor materials

    electrolytic

V01-B01G6G

    non-electrolytic

V01-B04B8G

copier/printer/fax/scanner parts

S06-K04C

*discharge tube salvaging*

V05-L07E6

*record carrier recycling and destroying*

*general*

T03-H02R

*magnetic*

T03-A01R

*magneto-optical*

T03-D01R

*optical*

T03-B01R

*resistor materials*

V01-A04R2

TV receiver

W03-A19C

semiconductors

U11-H

### **recycling/recovery of glass**

L01-B02

### **recycling/recovery of paper**

X25-T09G

    in copier/printer/fax/scanner

S06-K04A

### **recycling/recovery of toner**

S06-K04B

### **recycling waste water**

D04-A06

    from semiconductor manufacture

L04-X02

### **recovery of fibres**

F03-E02

### ***recovery of ferrous metals***

M24-A07

### ***recovery of non-ferrous metals***

M25-E

### **recovery of organic products/waste**

D05-A04A

    e.g. for fertilizer production

### **regeneration of pulp liquors**

F05-A02C

    during paper and fibre-board mfr.

other

J09-C01A







## APPENDIX 3

### Genetic Engineering



## Appendix 3 – GENETIC ENGINEERING

This appendix is designed as a quick reference guide for all manual codes that relate to genetic engineering.

For full details please look up the relevant code in the CPI manual.

Note – Items in italics are of interest to genetic engineering but may also contain details not applicable to genetic engineering.

### BIOLOGICAL MATERIALS FOR USE IN GENETIC ENGINEERING

<b>newly discovered methylases</b>	<i>B04-L04</i> <i>C04-L04</i> D05-H19A
<b>newly discovered restriction endonucleases</b>	<i>B04-L05A</i> <i>C04-L05A</i> D05-H19A
<b>new or modified DNA and RNA polymerases</b>	<i>B04-L04A</i> <i>C04-L04A</i> D05-H19B

### GENETIC ENGINEERING TECHNIQUES

#### DNA amplification method

production	B11-C01E C11-C01E D05-H18B
testing	<i>B11-C08E3</i> <i>C11-C08E3</i> <i>B11-C08E5</i> <i>C11-C08E5</i> <i>B12-K04F</i> <i>C12-K04F</i> <i>D05-H09</i> D05-H18B
<b>DNA sequencing method</b>	B11-C08E4 C11-C08E4 <i>B12-K04F</i> <i>C12-K04F</i> <i>D05-H09</i> D05-H18A

### GENE DELIVERY

#### electroporation devices therapeutic

by non-viral methods	D05-H20 B12-M19B C12-M19B
by viral methods	B12-M19A C12-M19A

**GENE THERAPY****gene therapy (general)**

antisense therapy

gene therapy

RNA interference

B14-S03

C14-S03

B14-S03B

C14-S03B

B14-S03A

C14-S03A

B14-S03C

B14-S03C

**NUCLEIC ACIDS****altered DNA coding sequences**

encoding antibodies

encoding antigens

encoding enzymes

encoding hormones

encoding fusion protein

general

engineered mutant sequences

encoding modifiers of cell

function and growth

encoding nucleic acid

encoding other protein/polypeptide

oncogene

encoding receptors

***patent with a Geneseq record*****vectors, plasmids, cosmids, transposons**

B04-E02A

C04-E02A

B04-E02J

C04-E02J

B04-E02E

C04-E02E

B04-E02C

C04-E02C

B04-E02H

C04-E02H

D05-H12C

B04-E02

C04-E02

D05-H12B1

B04-E02B

C04-E02B

B04-E02K

C04-E02K

B04-E02F

C04-E02F

B04-E02G

C04-E02G

B04-E02D

C04-E02D

B04-E99

C04-E99

B04-E08

C04-E08

D05-H12E

**PRODUCTION OF RECOMBINANT PROTEINS****fusion proteins**

comprising antibody or antibody fragments

D05-H17C

D05-H17C1

**mutant proteins/ polypeptides**

antibodies

D05-H17B1

via fermentation/large-scale isolation

D05-C12

antigen

D05-H17B5

via fermentation/large-scale isolation

D05-C12

cytokine, lymphokine, growth factor, hormone

D05-H17B2

via fermentation/large-scale isolation

D05-C12

enzymes

D05-H17B3

via fermentation/large-scale isolation

coenzymes

D05-C03A

general

D05-C03

hydrolases

D05-C03C

isomerases

D05-C03F

ligases (synthetases)

D05-C03F

lyases

D05-C03E

oxidoreductases

D05-C03B

transferases

D05-C03D

general

D05-H17B

via fermentation/large-scale isolation

D05-C12

others

D05-H17B6

via fermentation/large-scale isolation

D05-C12

receptor

D05-H17B4

via fermentation/large-scale isolation

D05-C12

zinc finger proteins

D05-H17B7

via fermentation/large-scale isolation

D05-C12

protein/polypeptide (general)

D05-H17

via fermentation/large-scale isolation

D05-C12

**wild type proteins/ polypeptides**

antibodies

D05-H17A1

via fermentation/large-scale isolation

D05-C12

antigen

D05-H17A5

via fermentation/large-scale isolation

D05-C12

cytokine, lymphokine, growth factor, hormone

D05-H17A2

via fermentation/large-scale isolation

D05-C12

enzymes

D05-H17A3

via fermentation/large-scale isolation

coenzymes

D05-C03A

general

D05-C03

hydrolases

D05-C03C

isomerases

D05-C03F

ligases (synthetases)

D05-C03F

lyases

D05-C03E

oxidoreductases

D05-C03B

transferases

D05-C03D

general	D05-H17A
via fermentation/large-scale isolation	<i>D05-C12</i>
others	D05-H17A6
via fermentation/large-scale isolation	<i>D05-C12</i>
receptor	D05-H17A4
via fermentation/large-scale isolation	<i>D05-C12</i>
zinc finger proteins	D05-H17A7
via fermentation/large-scale isolation	<i>D05-C12</i>

## RECOMBINANT PROTEINS

### antibodies

antibacteria	B04-G0700E
	C04-G0700E
antiblood cell	B04-G0600E
	C04-G0600E
anticancer cell	B04-G0500E
	C04-G0500E
antienzyme	B04-G0300E
	C04-G0300E
antihormone	B04-G0200E
	C04-G0200E
antimicroorganisms (other)	B04-G0900E
	C04-G0900E
antimodifier of cell function and growth	B04-G0200E
	C04-G0200E
antiplant	B04-G1000E
	C04-G1000E
antireceptor	B04-G0400E
	C04-G0400E
antivirus	B04-G0800E
	C04-G0800E
binding to another antibody	B04-G1100E
	C04-G1100E
bispecific	B04-G2400E
	C04-G2400E
catalytic	B04-G2000E
	C04-G2000E
	<i>D05-H11C</i>
fragments	B04-G2300E
	C04-G2300E
general	B04-G0100E
	C04-G0100E
	<i>D05-H11</i>
human	B04-G01B0E
	B04-G01B0E
monoclonal	B04-G2100E
	C04-G2100E
	D05-H11A2
murine	B04-G01D0E
	C04-G01D0E
polyclonal	B04-G2200E
	C04-G2200E
	<i>D05-H11B</i>



**enzymes, catalytic proteins**

coenzymes	B04-L0200E C04-L0200E
dehydrogenases, reductases	B04-L03D0E C04-L03D0E
DNA/RNA polymerases	B04-L04A0E C04-L04A0E
enzymes, catalytic proteins (general and other)	B04-L0100E C04-L0100E
esterases (general)	B04-L05A0E C04-L05A0E
isomerases	B04-L0700E C04-L0700E
glycosidases	B04-L05B0E C04-L05B0E
hydrolases (general and other)	B04-L0500E C04-L0500E
kinases	B04-L04C0E C04-L04C0E
ligases	B04-L0800E C04-L0800E
lipoxygenases	B04-L03E0E C04-L03E0E
lyases	B04-L0600E C04-L0600E
metalloprotease	B04-L05C1E C04-L05C1E
oxidases	B04-L03A0E C04-L03A0E
oxidoreductases (general and other)	B04-L0300E C04-L0300E
oxygenases	B04-L03C0E C04-L03C0E
peroxidases	B04-L03B0E C04-L03B0E
phosphodiesterases	B04-L05A1E C04-L05A1E
proteases (general)	B04-L05C0E C04-L05C0E
reverse transcriptase	B04-L04B0E C04-L04B0E
transferases (general and other)	B04-L0400E C04-L0400E
zymogen and other enzyme precursors	B04-L0900E C04-L0900E

**hormones**

adrenocorticotrophic hormone	B04-J05D0E C04-J05D0E
antidiuretic hormone	B04-J05B0E C04-J05B0E
angiotensin	B04-J1800E C04-J1800E

calcitonin	B04-J04A0E C04-J04A0E
cholecystokinin	B04-J1300E C04-J1300E
corticotropin-releasing hormone	B04-J0600E C04-J0600E
ecdysone	B04-J1600E C04-J1600E
endorphins	B04-J1100E C04-J1100E
enkephalins	B04-J1100E C04-J1100E
gastrin	B04-J1200E C04-J1200E
gonadotropin releasing hormone	B04-J0700E C04-J0700E
gonadotropins	B04-J05H0E C04-J05H0E
glucagon	B04-J03B0E C04-J03B0E
growth hormone-releasing hormone/factor	B04-J0900E C04-J0900E
hormones (general and other)	B04-J0100E C04-J0100E
insulin	B04-J03A0E C04-J03A0E
juvenile hormone	B04-J1700E C04-J1700E
melanin concentrating hormone	B04-J1900E C04-J1900E
melanocyte stimulating hormone	B04-J05G0E C04-J05G0E
motilin	B04-J1200E C04-J1200E
neurotensin	B04-J1500E C04-J1500E
pancreatic hormone (general/other)	B04-J0300E C04-J0300E
parathyroid hormone	B04-J04B0E C04-J04B0E
pituitary gland hormones (general/other)	B04-J0500E C04-J0500E
oxytocin	B04-J05A0E C04-J05A0E
secretin	B04-J1200E C04-J1200E
somatostatin	B04-J1000E C04-J1000E
somatropin-releasing factor	B04-J0900E C04-J0900E
tachykinins	B04-J1400E C04-J1400E

thyroid and parathyroid (general/other)	B04-J0400E C04-J0400E
thyroid stimulating hormone	B04-J05F0E C04-J05F0E
thyrotropin releasing hormone	B04-J0800E C04-J0800E
<b>modifiers of cell function and growth</b>	
actin	B04-H20C1E C04-H20C1E
activin A	B04-H1800E C04-H1800E
adhesion and motor molecules (general and other)	B04-H2000E C04-H2000E
bone morphogenetic protein	B04-H06L0E C04-H06L0E
clotting factors	B04-H1900E C04-H1900E
colony stimulating factors (general)	B04-H0400E C04-H0400E
epidermal growth factor	B04-H06A0E C04-H06A0E
erythropoietin and thrombopoietin	B04-H0700E C04-H0700E
fibroblast growth factor	B04-H06G0E C04-H06G0E
fibronectin	B04-H20A0E C04-H20A0E
granulocyte colony stimulating factor	B04-H04A0E C04-H04A0E
granulocyte macrophage colony stimulating	B04-H04C0E C04-H04C0E
growth factors (general/other)	B04-H0600E C04-H0600E
hepatocyte growth factor	B04-H06K0E C04-H06K0E
integrins	B04-H2100E C04-H2100E
interferon (general and other)	B04-H0500E C04-H0500E
interferon alpha	B04-H05A0E C04-H05A0E
interferon beta	B04-H05B0E C04-H05B0E
interferon gamma	B04-H05C0E C04-H05C0E
interleukin (general)	B04-H0200E C04-H0200E
interleukin 1	B04-H02A0E C04-H02A0E
interleukin 2	B04-H02B0E C04-H02B0E
interleukin 3	B04-H02C0E C04-H02C0E

interleukin 4	B04-H02D0E C04-H02D0E
interleukin 5	B04-H02F0E C04-H02F0E
interleukin 6	B04-H02G0E C04-H02G0E
interleukin 7	B04-H02H0E C04-H02H0E
interleukin 8	B04-H02J0E C04-H02J0E
interleukin 9	B04-H02K0E C04-H02K0E
interleukin 10	B04-H02L0E C04-H02L0E
interleukin 11	B04-H02M0E C04-H02M0E
interleukin 12	B04-H02N0E C04-H02N0E
interleukin 13	B04-H02P0E C04-H02P0E
interleukin 14-20	B04-H02Q0E C04-H02Q0E
interleukin 21-25	B04-H02R0E C04-H02R0E
interleukin 26-30	B04-H02S0E C04-H02S0E
interleukin 31-35	B04-H02T0E C04-H02T0E
leukemia inhibitory factor	B04-H0900E C04-H0900E
lymphotoxin	B04-H1300E C04-H1300E
macrophage colony stimulating factor	B04-H04B0E C04-H04B0E
macrophage derived growth factor	B04-H06C0E C04-H06C0E
macrophage inflammatory protein	B04-H110E C04-H110E
megakaryocyte colony stimulating factor	B04-H04D0E C04-H04D0E
megakaryocyte potentiator	B04-H1200E C04-H1200E
mullerian inhibitory substance	B04-H1000E C04-H1000E
muscle proteins (general)	B04-H20C0E C04-H20C0E
myosin	B04-H20C2E C04-H20C2E
nerve growth growth factor	B04-H06D0E C04-H06D0E
plasminogen activator	B04-H1500E C04-H1500E

platelet activating factor	B04-H1400E C04-H1400E
platelet derived growth factor	B04-H06B0E C04-H06B0E
prostatic growth factor	B04-H06J0E C04-H06J0E
somatomedins	B04-H06H0E C04-H06H0E
stem cell factor	B04-H1600E C04-H1600E
sulphation factors	B04-H06H0E C04-H06H0E
t-activin	B04-H1700E C04-H1700E
thymic factor	B04-H1700E C04-H1700E
transforming growth factor	B04-H06F0E C04-H06F0E
tropomyosin	B04-H20C3E C04-H20C3E
tumour necrosis factor	B04-H0800E C04-H0800E
vascular endothelial growth factor	B04-H06M0E C04-H06M0E
vitronectin	B04-H20B0E C04-H20B0E
<b>other protein/polypeptide</b>	
animal protein/polypeptide (complete sequence)	B04-N02A0E B04-N02A0E
animal protein/polypeptide (no sequence)	B04-N0200E C04-N0200E
animal protein/polypeptide (sequence fragments)	B04-N02B0E C04-N02B0E
bacterial protein/polypeptide (complete sequence)	B04-N03C0E C04-N03C0E
bacterial protein/polypeptide (sequence fragments)	B04-N03D0E C04-N03D0E
fungus protein/polypeptide (complete sequence)	B04-N03G0E C04-N03G0E
fungus protein/polypeptide (sequence fragments)	B04-N03H0E C04-N03H0E
fusion proteins	B04-N0800E C04-N0800E
glycoprotein	B04-N0600E C04-N0600E
ion channel proteins	B04-N0700E C04-N0700E
lipoprotein	B04-N0500E C04-N0500E
microorganism protein/polypeptide (complete sequence)	B04-N03A0E C04-N03A0E
microorganism protein/polypeptide (no sequence)	B04-N0300E C04-N0300E

microorganism protein/ polypeptide (sequence fragments)	B04-N03B0E
molecular chaperones and chaperonins	C04-N03B0E
	B04-N0900E
	C04-N0900E
peptidoglycan	B04-N0600E
	C04-N0600E
plant protein/polypeptide (complete sequence)	B04-N01A0E
	C04-N01A0E
plant protein/polypeptide (no sequence)	B04-N0100E
	C04-N0100E
plant protein/polypeptide (sequence fragments)	B04-N01B0E
	C04-N01B0E
prions	B04-N1000E
	C04-N100E
protein/polypeptide (undefined origin) (complete sequence)	B04-N04A0E
	C04-N04A0E
protein/polypeptide (undefined origin) (no sequence)	B04-N0400E
	C04-N0400E
protein/polypeptide (undefined origin) (sequence fragments)	B04-N04B0E
	C04-N04B0E
signalling pathway proteins	B04-N1300E
	C04-N1300E
transcription factors (general)	B04-N1200E
	C04-N1200E
viral protein/polypeptide (complete sequence)	B04-N03E0E
	C04-N03E0E
viral protein/polypeptide (sequence fragments)	B04-N03F0E
	C04-N03F0E
zinc finger proteins	B04-N1100E
	C04-N1100E
<b><i>patent with a Geneseq record</i></b>	<i>B04-E99</i>
	<i>C04-E99</i>
<b>receptors</b>	
androgen receptors	B04-K01L1E
	C04-K01L1E
angiotensin receptor	B04-K01N0E
	C04-K01N0E
antibody receptor	B04-K01W0E
	C04-K01W0E
bacterial or bacterial antigen receptor	B04-K01T0E
	C04-K01T0E
blood cell or blood cell antigen receptor	B04-K01R0E
	C04-K01R0E
cancer cell/cancer cell antigen receptor	B04-K01S0E
	C04-K01S0E
cell, microbe or antigen receptor (other)	B04-K01V0E
	C04-K01V0E
corticosteroid receptors	B04-K01L3E
	C04-K01L3E
dopamine receptor	B04-K01C0E
	C04-K01C0E
estrogen receptors	B04-K01L2E
	C04-K01L2E

G-protein coupled receptor	B04-K01Y0E C04-K01Y0E
growth factor receptor	B04-K01J0E C04-K01J0E
histamine receptor	B04-K01F0E C04-K01F0E
hormone receptor (other)	B04-K01P0E C04-K01P0E
insulin receptor	B04-K01M0E C04-K01M0E
interleukin receptor	B04-K01G0E C04-K01G0E
leukotriene receptor	B04-K01H0E C04-K01H0E
lipoprotein receptor	B04-K01Q0E C04-K01Q0E
melanin concentrating hormone receptor	B04-K01Y1E C04-K01Y1E
modifier of cell function and growth receptor (other)	B04-K01K0E C04-K01K0E
non-steroidal nuclear (hormone) receptor	B04-K01X0E C04-K01X0E
parasympathetic receptor	B04-K01A0E C04-K01A0E
peroxisome proliferative activated receptor	B04-K01X1E C04-K01X1E
prostaglandin receptor	B04-K01H0E C04-K01H0E
receptors (general and other)	B04-K0100E C04-K0100E
serotonin receptor	B04-K01D0E C04-K01D0E
steroid receptor (general)	B04-K01L0E C04-K01L0E
steroid receptors (other)	B04-K01L4E C04-K01L4E
sympathetic receptor	B04-K01B0E C04-K01B0E
thromboxane receptor	B04-K01H0E C04-K01H0E
thyroid receptor	B04-K01X2E C04-K01X2E
viral or viral antigen receptor	B04-K01U0E C04-K01U0E

**TRANSFORMED CELLS**

cells, microorganisms, transformants,  
hosts, cell lines, tissue general

B04-F0100E  
C04-F0100E  
D05-H14

**eukaryotic cells**

algae

B04-F08A0E  
C04-F08A0E

amphibian

B04-F07B0E  
C04-F07B0E  
D05-H14B4

avian

B04-F07B0E  
C04-F07B0E  
D05-H14B4

blood cells (general)

B04-F0400E  
C04-F0400E

cancer cells (mammalian)

B04-F02A0E  
C04-F02A0E  
D05-H14B2

carcinoma (mammalian)

B04-F02A0E  
C04-F02A0E  
D05-H14B2

fish

B04-F07B0E  
C04-F07B0E  
D05-H14B4

germ cells

B04-F0300E  
C04-F0300E

hybridoma (general)

B04-F0500E  
C04-F0500E  
*D05-H15*

insect

B04-F07A0E  
C04-F07A0E  
D05-H14B1

lymphocytes (general)

B04-F04B1E  
C04-F04B1E

mammalian (including human)

B04-F0200E  
C04-F0200E  
D05-H14B2

other animal, non-mammalian (general)

B04-F0700E  
C04-F0700E  
D05-H14B4

other white blood cells (general)

B04-F04B2E  
C04-F04B2E

ova

B04-F0300E  
C04-F0300E

plant

B04-F0800E  
C04-F0800E  
D05-H14B3

red blood cells

B04-F04A0E  
C04-F04A0E

reptile

B04-F07B0E  
C04-F07B0E  
D05-H14B4



sperm	B04-F0300E C04-F0300E
stem cells (mammalian)	B04-F02B0E C04-F02B2E D05-H14B2
unspecified cell lines	B04-F0100E C04-F0100E D05-H14B
white blood cells (general)	B04-F04B0E C04-F04B0E
<b>microbial cells</b>	
adenovirus	B04-F11A1E C04-F11A1E D05-H12F
algae	B04-F08A0E C04-F08A0E
Aspergillus	B04-F09A0E C04-F09A0E D05-H14A2
Bacillus	B04-F10B1E C04-F10B1E D05-H14A1
bacteria (general)	B04-F1000E C04-F1000E D05-H14A1
Bordetella	B04-F10A1E C04-F10A1E D05-H14A1
Borrelia	B04-F10A2E C04-F10A2E D05-H14A1
DNA viruses (general)	B04-F11A0E C04-F11A0E D05-H12F
Escherichia	B04-F10A3E C04-F10A3E D05-H14A1
fungus (unicellular, general)	B04-F0900E C04-F0900E D05-H14A2
gram-negative bacteria (general/other)	B04-F10A00E C04-F10A00E D05-H14A1
gram-positive genera (general/other)	B04-F10B0E C04-F10B0E D05-H14A1
Mycobacteria	B04-F10B2E C04-F10B2E D05-H14A1
Mycoplasma	B04-F10A4E C04-F10A4E D05-H14A1

Neisseria	B04-F10A5E C04-F10A5E D05-H14A1
Neurospora	B04-F09B0E C04-F09B0E D05-H14A2
protozoa	B04-F0600E C04-F0600E D05-H14A3
Pseudomonas	B04-F10A6E C04-F10A6E D05-H14A1
retrovirus	B04-F11B1E C04-F11B1E D05-H12F
Rickettsia	B04-F10A7E C04-F10A7E D05-H14A1
RNA viruses (general)	B04-F11B0E C04-F11B0E D05-H12F
Saccharomyces	B04-F09C0E C04-F09C0E D05-H14A2
Salmonella	B04-F10A8E C04-F10A8E D05-H14A1
Staphylococcus	B04-F10B3E C04-F10B3E D05-H14A1
Streptococcus	B04-F10B4E C04-F10B4E D05-H14A1
Streptomyces	B04-F10B5E C04-F10B5E D05-H14A1
unspecified microbial cells	B04-F0100E C04-F0100E D05-H14A
Vibrio	B04-F10A9E C04-F10A9E D05-H14A1
viruses (general)	B04-F1100E C04-F1100E D05-H12F
yeast (general)	B04-F0900E C04-F0900E D05-H14A2

## **TRANSGENIC ORGANISMS**

### **plants**

angiosperms	B04-A08C2E C04-A08C2E D05-H16B
bryophytes	B04-A08A0E C04-A08A0E D05-H16B
fungi (multicellular)	B04-A08D0E C04-A08D0E D05-H16B
general	B04-A0800E C04-A0800E D05-H16B
gymnosperms	B04-A08C1E C04-A08C1E D05-H16B
pteridophytes	B04-A08B0E C04-A08B0E D05-H16B
spermatophytes	B04-A08C0E C04-A08C0E D05-H16B

### **animals**

arthropods	B04-P01C0E C04-P01C0E D05-H16A
farm animals	B04-P01B0E C04-P01B0E D05-H16A
general	B04-P0100E C04-P0100E D05-H16A
laboratory experimental animals	B04-P01A0E C04-P01A0E D05-H16A

## **TRANSOMATIC ORGANISMS**

### **animals**

D05-H16C

### **plants**

D05-H16D



## CPI INDEX



## A

Abietic acid	A03-C02 B09-D01 C09-D01 E09-D01	electrical Acenaphthene	A12-E06+ B08-D03 C08-D03 E08-D03	Acetylenic compounds containing double bond(s) (co)polymers monomer	A04-A01 A01-B01 B10-J01 C10-J01 E10-J01
Abortifacient	B14-P01B C14-P01B	Acenaphthylene (co)polymers monomer	A04-C A01-D03	Acetylenic hydrocarbon	
Abrasion reducers (polymer use)	A12-H10	Acetal	B10-A23 C10-A23 E10-A23 E10-A23A E10-A23B	Acid adhesion promotor for polymer	A08-M01C
Abrasive compositions for household cleaning non polymeric papers	D11-D01B3 G04-B04 A12-A03	resin (polyoxy methylenes)	A05-H02+	Acid anhydride - see under appropriate acid	
Abrasives	L02-F	Acetal, polyvinyl	A10-E02	Acid crosslinkers for ethylenically unsaturated unsaturated and addition polymers other resins	A08-C+ A08-D02
abrasives for detergents	D11-B09	Acetaldehyde	B10-D01 C10-D01 E10-D01	Acid dyes for dyeing/ printing fibres	F03-F21
ABS copolymer	A04-C03	condensant	A01-E10	Acid esterified/ esterification of polymer	A10-E07+
Absorbents	B12-M21 C12-M21	Acetalised polymers	A10-E02	Acid halide - see under appropriate acid	
for gas storage	J06-B06	Acetate, cellulose	A03-A02+ B04-C02A3 C04-C02A3	Acid refractories	L02-E03
for liquid treatment	J01-D01	Acetate, vinyl - see Vinyl acetate		Acid treatment in petroleum refining	H04-A05
for waste gases	J01-E02B	Acetate-butyrate, cellulose	A03-A02+ A03-A03 B04-C02A3 C04-C02A3	Acid, carboxylic see carboxylic acid	
polymer additives	A08-S08	Acetic acid - see also Vinegar	B10-C04E C10-C04E E10-C04J E10-C04J2 E10-C04J2P E10-C04J2U	Acidising (in well treatment)	H01-C04
super absorbents	A12-W13			Acidosis disease treatment	B14-S13A C14-S03A
Absorption on resin, non-ferrous metal extraction	M25-B03	Acetone	B10-F02 C10-F02 E10-F02	Acne	B14-N17D C14-N17D
Absorption process for water purification	D04-A01F	condensant formaldehyde resins	A01-E10 A05-J08	Acoustic insulation	A12-R06 A12-S+ F04-E06 L02-D15 L02-D15C
Absorption property of polymers	A09-A08	Acetophenone	E10-F02A	boards ceramic oxides foam: other polystyrene polyurethane vehicles	A12-S04B A12-S01 A12-S02F A12-T04B
Abzyme	B04-G20 C04-G20 D05-H11C	crosslinking agent: for ethylenically unsaturated and addition polymers for other resins photopolymerisation catalyst	A08-C A08-D A02-A09	Acoustic well logging	H01-A02C
Acaricide	B12-B04 B14-B04A C12-B04 C14-B04A	Acetyl choline potentiator	B12-E05 B14-J02A1 C12-E05 C14-J02A1	Acridine	B06-D11 C06-D11 E06-D11
Accelerator	B12-M21 C12-M21	Acetylene	B10-J01 C10-J01 E10-J01	Acrolein	B10-D01 C10-D01 E10-D01
for catalysts	N06-G	(co)polymers	A04-A02	(co)polymers monomer production	A04-F02 A01-D05 E10-D01A
Accelerator for particles	K08-X L03-H04D	fuel composition containing monomer production by wet methods purification	H09-E A01-B02 H09-E H09-E	Acrylamides (co)polymers monomer	E10-D03C A04-D04+ A01-D06
photographic development	G06-H12	Acetylene black	A08-R03 E31-N G01-A11	Acrylate, alkyl (co)polymers monomer	E10-G02 A04-F06+ A01-D10B
Accelerators for blowing agents	A08-M			Acrylated epoxy resin process	A05-A+ A10-E07B
Accelerators for crosslinkers for olefinic unsaturated and addition polymers for other resins	A08-C03 A08-D+ A12-L02F				
Acceptor layers, photographic	G06-A04				
Acceptors, electron; (de-sensitisers)	G06-H06				
Accessories for knitting machines papermaking machines sewing	F02-B04 F05-A05 F02-F01B+				
Accumulator cryogenic	L03-E J07-D03				

product	A10-E07B	production	F01-D02	Acyclic unsaturated hydrocarbon	B10-J01
Acrylated polymers (i.e. acrylic acid(s) esterified)	A10-E07B	dyeing/printing	F03-F05		B10-J02
Acrylated polyurethanes (NCO terminated prepolymer + hydroxyalkyl acrylates) process	A05-G+ A10-E24 A10-E24	Acrylic flocculants	A12-M01		C10-J01
		Acrylic nitriles polymer based paint	A12-B01E G02-A02C4		C10-J02
		Acrylic paint, varnish or lacquer	A12-B01E G02-A02C+	Adamantane	E10-J01
Acrylic (co)polymer aqueous dispersions/latexes	A07-B02	Acrylic polyelectrolytes	A12-M01		E10-J02C
Acrylic acid	E10-C04G+	Acrylic polymer coatings on metal	A12-B01E A12-B04D		B09-D01
(co)polymers	A04-F04	Acrylonitrile	B10-A15	Addition (co)polymers in polymeric blends	C09-D01
monomer	A01-D08		C10-A15	Addition polymer	E09-D01
Acrylic acid aldehyde - see Acrolein			E10-A15	adhesive, binder	A12-A05B+
Acrylic acid amides - see Acrylamides		(co)polymers	A04-D03+	stabilisers, general	G03-B02D+
Acrylic acid anhydride		(co)polymers with butadiene	A04-B04	Addition polymerisation	A08-A01A
(co)polymers	A04-F04	(co)polymers with			A10-B+
monomer	A01-D08	butadiene and styrene	A04-C03	Addition process (chemical)	A10-C+
Acrylic acid esterified by aminoalcohol		homopolymer	A04-D02+		B11-C01
(co)polymers	A04-D09	monomer	A01-D04		CT1-C01
monomer	A01-D07 A01-D10B	Acrylonitrile (co)polymer fibre	A04-D02B A04-D03B	catalytic	E11-F+
Acrylic acid esters, diolefinic		chemical features of	F01-D02	Addition reactions of carbonyl (C=O)	N07-D+
(co)polymers	A04-B09	dyeing/printing	F03-F05	other than hydroformylation	E11-F02B
monomer	A01-C01	Acrylonitrile- butadiene- styrene copolymer (ABS)	A04-C03	other than to olefinic bonds	E11-F02B
Vinyl acrylate	E10-G02D1 E10-G02H2A	Acryloyl halides - see Acrylic acid halides		hydroformylation	E11-F02A
Acrylic acid esters, monoolefinic		ACTH (Adrenocorticotrophic hormone)	B04-B02D4 B04-J05D C04-B02D4 C04-J05D	to olefinic bonds	E11-F02A
(co)polymers	A04-F06			Addition reactions of carboxylate (CO <sub>2</sub> )	E11-F02B
monomer	A01-D10B	Actin	B04-H20C1 C04-H20C1	Addition reactions of nitrogenous functions	E11-F07
production	E10-G02D3	Actinic radiation - see UV irradiation		Additive colour systems, for photosensitive systems	G06-C13
use	E10-G02H2C	Actinide, actinoid (element 89+) catalysts	N03-A	Additives for	
Acrylic acid halides		Actinium compounds	B05-A04 C05-A04	cement	L02-C08
(co)polymers	A04-E	inorganic	E35-Y	concrete	L02-D14
monomer	A01-D12	organic	E05-Q	fodder	D03-G01
Acrylic acid, metal salts - see corresponding Acrylic acid entry		Actinomycin	B02-A C02-A	fuels	H06-D
Acrylic acids polymer paint	A12-B01E G02-A02C4	Activators for		lubricants	H07-G
Acrylic acid production	E10-C04G1A	concrete setting	L02-D14A	polymers	A08+
Acrylic acid use	E10-C04G2A	crosslinking	A08-C02	Adenosine	B04-B03A C04-B03A
Acrylic adhesive	F02-A05B1 G03-B02D1	polymerisation catalysts	A08-D+	Adenovirus	B04-F11A1 C04-F11A1
Acrylic aldehydes, monoolefinic		Active carbon	E31-N	Adenyl cyclase inhibitor	B14-D08 C14-D08
(co)polymers	A04-F02	purification of water	D04-A01F	Adenylic acid	B04-B03B C04-B03B
monomer	A01-D05	Active C treatment	D04-A01F2	Adhesion improvers for fibres in bulk material	F01-H06B
Acrylic amides polymer paint	A12-B01E G02-A02C4	Active photographic materials released on processing, excluding dyes	G06-C15	polymers	A08-M01+
Acrylic containing epoxy paint, varnish or lacquer	A12-B01E G02-A02C1	Acyclic saturated hydrocarbon	B10-J02 C10-J02 E10-J02D	Adhesion molecules	B04-H20 C04-H20
Acrylic esters - see Acrylic acid esters				Adhesive	
Acrylic fibres	A04-D02B A04-D03B			and methods for PCBs	L03-H04E6A
chemical features in				laminating (textiles)	F03-D01



on a carrier (excluding tape)	A12-A01A	polyurea, or		Adrenocortical	B12-C04
paper	A12-A01A	isocyanate based	G03-B02E4		B14-D01
processes general	G03-B03	Adipates plasticisers/extenders	A08-P04		C12-C04
sheet	A12-A01A	Adipic acid	B10-C02		C14-D01
tape	A12-A01		C10-C02	Adrenocorticotrophic hormone (ACTH)	B04-B02D4
	G03-B04		E10-C02D		B04-J05D
Adhesive bonded non-woven fabric	F02-C01C	condensant	E10-C02D2		C04-B02D4
Adhesives	A12-A+	Adiponitrile	A01-E12		C04-J05D
	G03+	condensant	A01-E05	Adrenocorticotropin	B04-B02D4
Coating metal using	M13-H03		A01-E12		B04-J05D
dental	D08-A02	Adipoyl chloride condensant	A01-E12		C04-B02D4
dental, polymer use in	A12-V02B	Administration mode	B12-M12+		C04-J05D
inorganic (including silicone resins)	G03-B01		C12-M12+	Adrenolytic	B12-E06
organic including polymers	A12-A+	buccal	B12-M12A		B14-J02D
	G03-B02+		C12-M12A		C12-E06
paper	F05-A06B	external	B12-M12B		C14-J02D
tyre cord	A12-T01C	injection	C12-M12B	Adriamycin	B02-D
Adhesives containing	A12-A+		C12-M12C		C02-D
gelatin	G03-A	infusion	B12-M12D	Adsorbents for	
glue	G03-A		C12-M12D	gas separation	J01-E03C
inorganic constituent	G03-B01	intraarterial	B12-M12E	gas storage	J06-B06C
natural or synthetic rubber	G03-B02B		C12-M12E	liquid separation	J01-D01
natural polymer (other)	G03-B02A	intravenous	B12-M12F	waste gas treatment	J01-E02B
organic constituent	G03-B02+		C12-M12F	water treatment	D04-A01F
silicon polymers	A06-A00E1	intraaural	B12-M12G	Adsorbents (polymer use in)	A12-W11D
	G03-B01		C12-M12G	Adsorption property of polymer	A09-A08
synthetic polymer (general)	G03-B02C	intraocular	B12-M12H	Adult Respiratory Distress Syndrome treatment	B14-K01F
Adhesives containing addition polymers	G03-B02D+		C12-M12H		C14-K01F
(meth)acrylamide		intramuscular	B12-M12J	Advertising	A12-W03
(co)polymers	A04-D04A1		C12-M12J	Aeration of	
(meth)acrylate (co)polymers	A04-F06E6	intranasal	B12-M12Q	fermentation media	D05-A03C
(meth)acrylic acid/			C12-M12Q	water	D04-A01K
anhydride (co)polymers	A04-F04B	subcutaneous	B12-M12K		D04-A01K2
acrylic polymers	G03-B02D1		C12-M12K	Aerials, electrical (polymer use)	A12-E
olefinic hydrocarbon polymers	G03-B02D3	intrauterine	B12-M12L	Aeroplanes - see Aircraft	
polyethylene	A04-G02E1		C12-M12L	Aerosil filler	A08-R06A
	G03-B02D3	intravaginal	B12-M12M	Aerosol	B12-M01A
PVA	A10-E09B1		C12-M12M		C12-M01A
	G03-B02D2	oral general	B12-M12N	composition	G04-B07
PVC	A04-E02E2		C12-M12N	containers	A12-P06A
	G03-B02D2	rectal	B12-M12P	After treatment of	
styrenic polymers	G03-B02D3		C12-M12P	dyed/printed textiles	F03-F14
vinyl ester polymer	G03-B02D2	Adrenaline potentiator	B12-E07	pulp in papermaking	F05-A02B
vinyl halide polymer	G03-B02D2		B14-J02C1	Agar	A03-A
Adhesives containing condensation polymer aminoplasts	G03-B02E+		C12-E07		B04-C02D
	A05-B01	Adrenergic blocker	C14-J02C1		C04-C02D
	G03-B02E1		B12-E06	Ageing inhibitor	
epoxy resins	A05-A01E3	alpha	C12-E06	additive for polymer	A08-A+
	G03-B02E2		B14-J02D1	Ageing resistance	
phenol-formaldehyde	G03-B02E1	beta	C14-J02D1	improvement of fabrics	F03-C07
phenol-formaldehyde res	A05-C01B1		B14-J02D2	Aggregates	L02-D13
	A05-C03A	general	C14-J02D2	Agonist general and other	B14-L01
phenoplasts	G03-B02E1		B14-J02D		C14-L01
polyesters	G03-B02E3	Adrenergic stimulant	C14-J02D	Agriculturals	C
polyurethane,			B12-E07	Agriculture	
			B14-J02C1	composition, machine	
			C12-E07	for producing	B11-C05
			C14-J02C1		CT1-C05

foam use in	A12-S04C	HCHO)	A01-E10	Aliphatic dibasic acid(s)+ diamine(s) derived polyamide	A05-F02
nuclear applications	K09-C	unsaturated aliphatic		Aliphatic hydrocarbon (acyclic)	D05-C09
polymer use in	A12-W04+	unsaturated aliphatic		acetylenic	E10-J01
AIDS treatments	B14-G01B	(co)polymers	A04-F02	saturated	E10-J02D
	C14-G01B	unsaturated aliphatic		unsaturated olefinic	E10-J02C
Air conditioning	J07-A07	monomer	A01-D05	unsaturated olefinic, production by	
	J01-G03C	Aldehyde condensation		disproportionation	E10-J02C2
buildings	A12-R02	polymers		unsaturated olefinic, production by	
textile factories	F03-K	from formaldehyde only	A05-H02+	oligomerisation	E10-J02C1
transport	A12-T	from trioxane only	A05-H02+	unsaturated olefinic, production by other methods	E10-J02C3
Air drying of solids	J08-H01	polyoxymethylene	A05-H02+	unsaturated olefinic, uses	E10-J02C4
Air laying of non-woven fabrics	F02-C02G	with amides/amines	A05-B+	Aliphatic sulphonic acid detergents	D11-A01B2
Air, in oxidation reactions	E11-E01	with other condensants		Alkali halide electrolysis	J03-B04
Airbags	F04-E03A	e.g. naphthalene		Alkali metal	
vehicle safety	A12-T04E	sulphonic acid	A05-J08	alloys	M26-B
	K04-C	with phenols	A05-C+	catalysts	N01-A
Aircraft	A12-T	Aldehyde/ketone		electrodes for batteries	L03-E01B5
runway compositions	A12-R09	polycondensates	A05-J08	in glass composition	L01-A01
Airjet		Aldosterone antagonist	B14-D02A1	incorporated/incorporation	
treatment of fibres	F01-H02		C14-D02A1	in polymers	A10-E21
weaving	F02-A04B	Alfin polymerisation catalysts	A02-A05	organic compounds as olymersisation catalyst	
Albumen	A03-C01	Algae	B04-B02B3	(excluding with transition metal)	A02-A07B
	B04-B04A6		C04-B02B3	production	M25-G04
	B04-N02	chlorella	B04-F08	Alkali metal compounds	B05-A01B
	C04-B04A6		C04-F08		C05-A01B
	C04-N02	seaweed	B04-A08	inorganic	E33
Alcohol	B10-E04		C04-A08	organic	E05-A
	C10-E04	unicellular	B04-F08	Alkali treating of fabrics	F03-C08
	E10-E04		C04-F08	Alkali treatment	
condensant	A01-E14	Alginates	A03-A	in petroleum refining	H04-A06
denaturing	D05-D		B04-C02D	Alkali, detergent additives	D11-B11
testing	J04-B01B2		C04-C02D		D11-B11D
thio	B10-E03	Alicyclic		Alkaline earth metal	
	C10-E03	3 or more rings fused		alloys	M26-B
	E10-E03+	general	B09-H	catalysts	N01-B
			C09-H	incorporated/incorporation	
unsaturated aliphatic	B10-E04		E09-H	in polymers	A10-E21+
	C10-E04	3 rings fused	B09-D	organic compounds as polymerisation catalyst	
	E10-E04		C09-D	(excluding with transition metal)	A02-A07B
unsaturated aliphatic (co)polymers	A04-F	4 rings fused	E09-D	pigment/filler	G01-A01
unsaturated aliphatic monomer	A01-D09		B09-C	production	M25-G05
Alcohol production by fermentation	D05-C15		C09-C	Alkaline earth metal compounds	B05-A01B
Alcoholism treatment	B12-J05A	5 rings fused	E09-C		C05-A01B
	B14-M01A		B09-B	inorganic	E34
	C12-J05A	6 or more rings fused	C09-B	organic	E05-B
	C14-M01A		E09-B	Alkaloid (general)	B04-A07A
Alcohols			B09-A		C04-A07A
condensants	A01-E14	1-2 rings fused	C09-A		E04-A
glycidyl ethers of	A05-A03		E09-A	Alkane	B10-J02
Alcoholysed polymers	A10-E09+	hydrocarbon	B10		C10-J02
Aldehyde	B10-D01		C10		E10-J02D
	C10-D01		E10		
	E10-D01		E10-J02A		
			E10-J02A1		
			E10-J02A2		
condensant (excluding		Alicyclic polyepoxides	A05-A05		
		Aligning masks and layers in semiconductor processing	L04-C06D		
		Alignment layers	L03-G05B8		
		Aliphatic - see also acyclic			

Alkenes	B10-J02 C10-J02 E10-J02C	master production steel treatment treatment, cast iron treatment, master treatment, production treatment, steel	M27-A02 M27-A01 M27-A04 M27-B M27-B03 M27-B02 M27-B01 M27-B04	Alternating copolymerisation Alternators Alum(in)oxanes as polymerisation catalysts Alumina catalyst (without silica) (non- polymerisation) cements filler flame retardant glass composition polymerisation catalyst support production smoke inhibitor use Alumina-silica mixture catalyst (not zeolite)	A10-C01 A12-E08B A06-D01 A02-A B05-A01B C05-A01B L02-G01A N01-C02 L02-C07 A08-R G01-A10 A08-F L01-A03A A02-D E34-C01 L02-G11 A08-F E34-C02 E31-P02 N01-C01 N01-C01A N01-C01B M13-D01B M26-B09 L04-C10C G01-A12A N01-C N01-C01+ N01-C02 N01-C03 N06+ A02-A04 B05-A01B C05-A01B E34-C E34-C03 E05-B02 E05-B03 G01-A10 A02-A07C A02-A06C B05-A01B C05-A01B A08-F05 E34-C01 E34-C02 G01-A12A M25-G01 M23-E02
Alkenes - see also Olefins		Alloys (non-ferrous) based on particular metals production production by melting production by pressing or sintering	M26-B M26-A M26-A01 M26-A02		
Alkoxide of metal, catalyst	N05-A	Allyl acetate (co)polymers monomer	E10-G02 A04-F A01-D10		
Alkoxylated melamine resins	A10-E08C	Allyl acrylates (co)polymers monomer	E10-G02 A04-B09 A01-C01		
Alkyd resins	A05-E08	Allyl alcohol (co)polymers monomer	E10-E04M2 A04-F A01-D09		
Alkyl acrylates - see Acrylic acid esters		Allyl chloride (co)polymers monomer	E10-H02J A04-E A01-D12		
Alkyl metal catalyst for polymerisation	A02-A+ N05-A	Allyl ether (co)polymers monomer	A04-F11 A01-D11		
Alkyl metal catalysts	B05-B01P C05-B01P E05-G09C	Allyl glycidyl ether (co)polymers monomer	A04-F11 A05-A04 A01-D11 A01-E07		
Alkyl orthophosphate		Allyl methacrylate - see Allyl acrylates			
Alkyl styrenes (co)polymers monomer	A04-C05 A01-D03	Allyl sulphonic acid (co)polymers monomer	A04-A A01		
Alkyl sulphate	B10-A09A C10-A09A E10-A09A2 DT1-A01F1	Alpha amino acid (carboxylic)	B10-B02 C10-B02 E10-B02D		
detergents		Alpha radiation - see Ionising radiation			
Alkylated melamine-formaldehyde resin process	A05-B02 A10-E08C A10-E08C	Alpha-adrenergic blocker	B12-E06A B14-J02D1 C12-E06A C14-J02D1		
product		Alpha-chloroacrylic acid (co)polymers monomer	A04-E A01-D08 A01-D12		
Alkylated methylolated amines/amides process	A05-B+ A10-E08C A10-E08C	Alpha-chlorostyrene (co)polymers monomer	A04-C A01-D02		
products		Alpha-methyl styrene (co)polymers monomer	E10-J02B A04-C05 A01-D03		
Alkylated/alkylation of polymer (direct C-C bond)	A10-E03	Alphacillin	B02-P03 C02-P03		
Alkylation	H04-E13A				
Alkylation (gasoline preparation)	H04-D02				
Alkylene oxide condensants polyethers polyetherurethanes	A01-E07 A05-H+ A05-G03				
Alkyleneimine polymers	A05-J07				
Alkynes	B10-J01 C10-J01 E10-J01				
Allergen	B04-B04C9 C04-B04C9				
Allethrin	B04-A07C C04-A07C				
Allopregnane	B01-D01 C01-D01				
Alloying of ferrous melts	M24-C08				
Alloys (ferrous) cast iron	M27-A M27-A03				

Aluminosilicate	E31-P02 L02-G01A	Amino phenols	E10-B03A1 E10-B03B1	general	B05-B02A2 C05-B02A2
Aluminum - see Aluminium		condensant	A01-E05 A01-E13	production	E31-K03
Alzheimer's disease treatment	B12-G04A B14-J01A4 C12-G04A C14-J01A4	crosslinkers for ethylenically unsaturated polymers	A08-C09	use	E31-K05E
Americium compounds	B05-A04 C05-A04	crosslinkers for other polymers	A08-D03	Ammonium persulphate	E31-E03
inorganic	E35-R	Aminoalkyl (meth)acrylate (co)polymers	A04-D09 A01-D07 A01-D10B	crosslinker for ethylenical unsaturated polymers	A08-C05
organic	E05-Q	monomer		crosslinker for other polymers	A08-D
Amidated/amidation of polymers	A10-E17+ A10-E17A A10-E17B A10-E17A	Aminoalkyl cellulose - see Cellulose ethers		redox polymerisation	
of epoxy resins		Aminoalkyl silane adhesion improvers	A08-M01D	catalyst system component	A02-A03
of other polymers		Aminoalkylated/ amino alkylation of polymer	A10-E03	sole polymerisation	
of polyethers		Aminoarylated/ aminoarylation of polymer	A10-E03	catalyst species	A02-A01
Amide - see under appropriate acid		Aminocaproic acid condensant	A01-E04	Ammonium polyphosphate, general	B05-B02A2 C05-B02A2
Amides		Aminoplasts	A05-B+ A12-A05D G03-B02E1 A12-B01J G02-A02F	production	E31-K04
condensants	A01-E03	adhesive/binder		use	E31-K06
crosslinkers for ethylenically unsaturated polymers	A08-C09	coating/paint		Ammonium salt with inorganic P acid	B05-B02A2 C05-B02A2
crosslinkers for other polymers	A08-D04	Aminotriazine condensant	A01-E01	general production, excluding orthophosphates	E31-K04
monomers, monoolefinic	A01-D06 B10-A17 C10-A17 E10-A17 E10-A17A E10-A17B	Ammonia	B05-C01 C05-C01 E32-A N04-A D04-B07C E11-F07C E11-F07C	use, excluding ortho- and polyphosphates	E31-K07
Amidine		Ammonia catalyst		Ammonium sulphate	B05-C01 C05-C01 E32-A
Aminated/amination of polymers		Ammonia removal from water		Ammunition	K03-A
of epoxy resins	A10-E18	Ammonia-oxidation reaction		decommissioning	K03-A04
of other polymers	A10-E19	Ammonium chloride		Ammunition - see also Military	
of polyethers	A10-E18	crosslinker for ethylenically unsaturated polymers	A08-C09	Amniotic fluid	B04-B04H C04-B04H
Amine oxide	B10-A03 C10-A03 E10-A03	crosslinker for other polymers	A08-D03	Amoebicide	B12-B01 B14-A03A C12-B01 C14-A03A
Amine oxides as disinfectants other than of food or air	D09-A04C	Ammonium compounds		Amorphous layers on semiconductors	L04-C03
Amine-epihalohydrin polymers	A05-J09	inorganic	B05-C01 C05-C01 E32-A N04-A B05-C01 B05-C02 C05-C01 C05-C02 E32-A	Amoxicillin	B02-P02 C02-P02
Amine-polymaleimide polymers	A05-J11	Ammonium inorganic catalyst		Amphibian cells	B04-F07A C04-F07A
Amines	B10-B C10-B E10-B+	Ammonium nitrate		Ampholyte detergent mixtures with other detergents	D11-A04
catalysts	N05-D	Ammonium organic (quaternary N)		Amphoteric refractories	L02-E09
condensants	A01-E05	catalyst	N05-D	Amphotericin B	B02-A C02-A
crosslinkers for ethylenically unsaturated polymers	A08-C09	compounds mono	B10-A22 C10-A22 E10-A22 B10-A21 C10-A21 E10-A21	Ampicillin	B02-P02 C02-P02
crosslinkers for other polymers	A08-D03	compounds poly		Amplification processes for production	B11-C01E C11-C01E
cyclic monoolefinic monomer	A01-D01	Ammonium orthophosphate,		Ampoule	B12-M04 C12-M04
Amino acids, alpha, (carboxylic)	B10-B02 C10-B02 E10-B02D+ E10-B02A+			Anabolic agent	B12-J01 B14-E11 C12-J01 C14-E11
aromatic					
biosynthesis	D05-C01				
condensants	A01-E04				
detection and analysis of homopolycondensates	J04-B03				
polyamides	A05-F03				

Anaemia treatment	B12-H01 B14-F03 C12-H01 C14-F03	1,4-Androstadiene	B01-B03 C01-B03	Animal polysaccharides	B04-C02E C04-C02E
Anaesthetic		Androstadiene (other than 1,4)	B01-B04 C01-B04	Animal protein	B04-B04A6 B04-N02 C04-B04A6
general	B12-C01 B14-C07 C12-C01 C14-C07	Androstane (saturated ring "A")	B01-D02 C01-D02	Animal repellent	A08-M02
local	B12-C02 B14-C08 C12-C02 C14-C08	Aneurin	B03-B C03-B	Animal repellent	B12-N06 B14-B13 C12-N06 C14-B13
Analeptic	B12-C03 B14-J01A2 C12-C03 C14-J01A2	Angina pectoris treatment	B12-F02 B14-F01D C12-F02 C14-F01D	Animal waste, protein recovery from	D03-F04
Analgesic	B12-D01 B14-C01 C12-D01 C14-C01	Angiogenic	B14-F02F1 C14-F02F1	Animal waxes	B04-B01C2 C04-B01C2
Analogue Nucleic Acid	B14-E11 C14-E11	Angiosperms	B04-A08C2 C04-A08C2	Animals (whole)	
Analysis	J04-B01	Angiotensin	B04-J18 C04-J18	arthropods	B04-P01C C04-P01C
Chemdoc	E11-Q	Angiotensin agonist/mimetic	B14-L02 C14-L02	domestic	B04-P01B C04-P01B
Farmdoc/Agdoc	B12-K04 C12-K04	Angiotensin antagonists	B14-F02B1 C14-F02B1	experimental	B04-P01A C04-P01A
laboratory equipment	A12-L04	Angiotensin converting enzyme inhibitor	B12-F05A B14-F02B1 C12-F05A C14-F02B1	farm	B04-P01B C04-P01B
medical	J04-B A12-V03C2 B12-K04 C12-K04	Anhydride - see under appropriate acid		fish	B04-P01 C04-P01
of fabrics	F03-K02	Anhydride crosslinking agents	A08-C+ A08-D02 E10-B04A E10-B04A1 E10-B04A2	general	B04-P01 C04-P01
of ferrous metals and alloys	M24-A06	Aniline	A01-E05	insects	B04-P01C C04-P01C
of non-ferrous metals and alloys	M25-H	condensant	A05-B	laboratory	B04-P01A C04-P01A
of NBC agents	K02-A04	Aniline-based aminoplasts	B04-B04A3 B04-F01 C04-B04A3 C04-F01	poultry	B04-P01B C04-P01B
of polymers (chemical constitution)	A09-B	Animal cells	B04-B04B C04-B04B C04-B04B2 C04-B04B2 C04-B04B1	wild	B04-P01 C04-P01
microanalysis	J04-B04	Animal excrement	E04-B B04-B04L C04-B04L	Animal use only of D08 codes	D08-C
reactions and reagents	J04-B01B	Faeces	D05-B04	Anion exchange resins - see ion exchange resins	
spectral	J04-B01A	Urine	D03-G D03-J10	Anionic detergent	D11-A01
using various methods (Chemdoc)	E11-Q03	Animal extract, general		Anionic dyes for dyeing/printing fibres	F03-F21
using electrical properties	J04-C02B	mammalian		Anisotropic melt/solutions of polymers	A09-A02A
using optical properties	J04-C02C	non-mammalian		Annealing of	
Anchor bolts	A12-H12	Animal feed yeast production		ferrous metal	M24-D02B
Ancillary equipment for semiconductor processing	L04-D10	Animal feeds		fibres	F01-H05
Androgen inhibitor	B12-G01A B14-D02A C12-G01A C14-D02A	Animal fibres		glass	L01-C02
Androgen receptor	B04-K01L1 C04-K01L1	chemical treatment	F01-B01	non-ferrous metal	M29-C
Androgenic	B12-G04B B14-D01A C12-G04B C14-D01A	dyeing/printing	F03-F02	polymers	A11-B02 +
		mechanical treatment	F01-A01	semiconductors (laser)	L04-C16B
		Animal oils	B04-B01C2 C04-B01C2	Anodic protection	M14-E
				Anodising	M11-E
				for anticorrosive or decorative purposes	M11-E01
				for electrical purposes	M11-E02
				Anodyne	C12-D01
				Anorectal disease treatment	B14-N07 C14-N07

Anorectic	B12-J02 B14-E12 C12-J02 C14-E12	Antialgal	B12-A02A B14-A05 C12-A02A C14-A05	Antibacterial	B12-A01 C12-A01 B14-A01B5 C14-A01B5
Anorexia treatment	B12-J01 B14-E11A C12-J01 C14-E11A	Antiallergic	B12-D02 B14-G02A C12-D02 C14-G02A	Bacillus	B14-A01A1 C14-A01A1
Antacid	B12-J03 B14-E01 C12-J03 C14-E01	Antiamnesia	B14-J01A4 C14-J01A4	Bordetella	B14-A01A2 C14-A01A2
Antagonist general and other	B14-L06 C14-L06	Antiamoebic	B12-B01 B14-A03A C12-B01 C14-A03A	Escherichia	B14-A01A3 C14-A01A3
Anthracene	B08-D02 C08-D02 E08-D02	Antianaemia	B12-H01 B14-F03 C12-H01 C14-F03	Mycobacteria	B14-A01B1 C14-A01B1
Anthraquinone dye	A08-E03B E22	Antianaphylactic	B12-J05 B14-G02B C12-J05 C14-G02B	M. Tuberculosis	B14-A01B1A C14-A01B1A
condensed ring system	E22-E	Antianginal	B12-G01A B14-D02A5 C12-G01A C14-D02A5	M. Leprae	B14-A01B1B C14-A01B1B
for dyeing textiles	F03-F16C	Antiangiogenic	B14-F01D C14-F01D	Mycoplasma	B14-A01A4 C14-A01A4
for polyamide textiles	F03-F06C	Antiangiotensin converting enzyme	B14-F02F2 C14-F02F2	Neisseria	B14-A01A5 C14-A01A5
for polyester textiles	F03-F07C	Antiarthritic	B12-F05A B14-F02B1 C12-F05A C14-F02B1	Pseudomonas	B14-A01A6 C14-A01A6
reactive	E22-D	Antiarthritic general and other	B14-H04 C14-H04	Rickettsia	B14-A01A7 C14-A01A7
water insoluble	E22-C	Antiarhythmia	B12-F01A B14-F01A C12-F01A C14-F01A	Salmonella	B14-A01A8 C14-A01A8
water soluble, cationic	E22-A	Antiartherosclerotic	B12-H03 B14-F07 C12-H03 C14-F07	Staphylococcus	B14-A01B4 C14-A01B4
water soluble, not cationic	E22-B	Antiarthritic treatment	B12-D03 B14-C09 C14-C09	Streptococcus	B14-A01B2 C14-A01B2
Anti DNA/RNA polymerase	B14-D06A C14-D06A	Antiarthritic general and other	B14-C09A C14-C09A	Streptomyces	B14-A01B3 C14-A01B3
Anti heavy metal poisoning	B12-J05C B14-M01D C12-J05C C14-M01D	Antiarthritic treatment	B14-C09B C14-C09B	Vibrio	B14-A01A9 C14-A01A9
Anti-graffiti coatings	G02-A05J	Antiarthritic treatment	B14-C09B C14-C09B	general	B14-A01 C14-A01
Anti-ozonants for polymers	A08-A07	Antiarthritic treatment	B14-C09B C14-C09B	gram-negative general	B14-A01A C14-A01A
Anti-reflective layers in photographic materials and processes	G06-A02A	Antiarthritic treatment	B14-C09B C14-C09B	gram-positive general	B14-A01B C14-A01B
Anti-SRS-A	B12-D02D C12-D02D	Antiarthritic treatment	B14-C09B C14-C09B	Antibacterial (plant)	
Antibortive	B14-P03 C14-P03	Antiarthritic treatment	B14-C09B C14-C09B	Pseudomonas	C14-A01C2
Antiacetyl choline	B12-E04 B14-J02B1 C12-E04 C14-J02B1	Antiarthritic treatment	B14-C09B C14-C09B	Agrobacteria	C14-A01C3
Antiaigeing (senility)	B12-G04A B14-J01A4 C12-G04A C14-J01A4	Antiarthritic treatment	B14-C09B C14-C09B	Enterobacteria	C14-A01C1
Antiaigeing additives	A08-A+	Antiarthritic treatment	B14-C09B C14-C09B	general	C14-A01C
Antiaigeing preparations	D08-B09A3	Antiarthritic treatment	B14-C09B C14-C09B	Antibiotics	B02 C02 E02
Antiaaggregants	B14-F04 C14-F04	Antiarthritic treatment	B14-C09B C14-C09B	as disinfectants other than of food or air	D09-A01C
Antialcoholism	B12-J05A B14-M01A C12-J05A C14-M01A	Antiarthritic treatment	B14-C09B C14-C09B	biosynthesis	D05-C02
Antialdosterone	B14-D02A1 C14-D02A1	Antiarthritic treatment	B14-C09B C14-C09B	Antiblocking agents for polymers	A08-M07
		Antiarthritic treatment	B14-C09B C14-C09B	Antibody	B04-B04C C04-B04C
		Antiarthritic treatment	B14-C09B C14-C09B	antialgal	B04-G09 C04-G09
		Antiarthritic treatment	B14-C09B C14-C09B	antiamoebal	B04-G09 C04-G09
		Antiarthritic treatment	B14-C09B C14-C09B	antibacterial	B04-G07 C04-G07

antiblood	B04-G06 C04-G06	other	B04-B04C6 C04-B04C6	Anticoagulant	B12-H02 B14-F04 C12-H02 C14-F04
anticancer	B04-B04C4 B04-G05 C04-B04C4 C04-G05	polyclonal	B04-G22 C04-G22 D05-H11B D05-H17A1	Anticonvulsant	B12-D04 B14-J07 C12-D04 C14-J07
anticytokine	B04-G02 C04-G02	recombinant production of recombinant production of mutated antibodies	D05-H17B1 B12-M10E2 C12-M10E2	Anticorrosion additives for water	D04-A03
antienzyme	B04-G03 C04-G03	Antibody - Antigen reaction		Anticorticosterone	B14-D02A C14-D02A
antifungal	B04-G09 C04-G09	general	B11-C07A C11-C07A	Anticrustacean	B12-N04 B14-B04 C12-N04 C14-B04
antihormone	B04-G02 C04-G02	Antibody-producing cells	B04-F05 C04-F05 D05-H15	Anticurl layers, photographic	G06-A
antiinterleukin	B04-G02 C04-G02	Antibordetella	B14-A01A1 C14-A01A1	Antidehydrogenase	B14-D05D C14-D05D
antilymphokine	B04-G02 C04-G02	Antibradykinin	B12-E02 B12-F04 B14-D02B C12-E02 C12-F04 C14-D02B	Antidepressant	B12-C06 B14-J01A1 C12-C06 C14-J01A1
antimetabolic factor	B04-G02 C04-G02			Antidiabetic	B12-H05 B14-S04 C12-H05 C14-S04
antimicrobial (excluding vaccines)	B04-B04C3 C04-B04C3	Antibronzing agents, photographic	G06-H11	Antidiarrhoeal	B12-J04 B14-E02 C12-J04 C14-E02
antimicrobial (other than bacterial or viral)	B04-G09 C04-G09	Anticaking	B12-M11A C12-M11A	Antidiuretic hormone (ADH)	B04-J05B C04-J05B
antiplant	B04-G10 C04-G10	agents for detergents	D11-B04	Antidiuretics	B14-N09 C14-N09
antireceptor	B04-G04 C04-G04	Anticancer	B12-G07 B14-H01 C12-G07 C14-H01	Antidopaminergic	B14-J02D3 C14-J02D3
antiviral	B04-G08 C04-G08	Anticarcinogenic	B12-G07 B14-H01 C12-G07 C14-H01	Antidotes general and other	B12-J05 B14-M01 C12-J05 C14-M01
as part of fusion protein	D05-H17C1	Anticaries	B14-N06A C14-N06A	herbicide	B14-M01E C14-M01E
binding to another antibody	B04-G11 C04-G11	Anticaries composition	D08-A05	pesticide	B14-M01E C14-M01E
bispecific antibodies	B04-G24 C04-G24	Anticatabolic	B12-J01 B14-E11 C12-J01 C14-E11	Antiemetic	B12-D05 B14-E05 C12-D05 C14-E05
catalytic antibodies	B04-G20 C04-G20	Anticataleptic	B12-E02 B14-J01A2 C12-E02 C14-J01A2	Antiepileptic	B12-D04 B14-J07 C12-D04 C14-J07
chimeric	B04-G01A C04-G01A	Anticatatonic	B14-J01A2 C14-J01A2	Antiesterase	B14-D07A C14-D07A
fragments	B04-G23 C04-G23	Anticholesterol	B12-H03 B14-D02A2 C12-H03 C14-D02A2	Antieumycetes	B12-A02C B14-A04 C12-A02C C14-A04
general	D05-H11	Anticholinergic	B12-E04 B14-J02B1 C12-E04 C14-J02B1		
general and other	B04-G01 C04-G01				
human	B04-G01B C04-G01B				
humanized	B04-G01C C04-G01C				
monoclonal	B04-B04C5 B04-G21 C04-B04C5 C04-G21 D05-H11A				
murine	B04-G01D C04-G01D				

Antifebric	B12-D08 B14-C04 C12-D08 C14-C04	Helminthosporium Phytophthora Pythium Rhizoctonia	C14-A06D C14-A06E C14-A06F C14-A06G	Antihistamine	B12-D06 C12-D06 B14-L09 C14-L09
Antifebrile	B12-D08 B14-C04 C12-D08 C14-C04	Sclerotinia Sclerotium Septoria Venturia	C14-A06H C14-A06J C14-A06K C14-A06L	general	B14-L09
Antifertility	B12-G01A B14-P01 C12-G01A C14-P01	Verticillium bunts Downy mildew general	C14-A06M C14-A06S C14-A06P C14-A06	H1-secretion inhibitors	B14-L10 C14-L10 B14-L11 C14-L11
Antifibrillatory	B12-F01A B14-F01A C12-F01A C14-F01A	others powdery mildew rice blast treatment rusts	C14-A06T C14-A06N C14-A06 C14-A06R	H2-secretion inhibitors	B14-L11
Antifibrinolytic	B12-H04 B14-F08 C12-H04 C14-F08	smuts Antigen-antibody reaction apparatus	C14-A06S B11-C07A7 C11-C07A7	Antihistaminergic	B14-L09 C14-L09
Antifibroblastogenic	B12-G07 B14-H01A C12-G07 C14-H01A	testing Antigens	B11-C07 C11-C07 B04-B04C C04-B04C	Antihormone	B12-G01A B14-D02 C12-G01A C14-D02
Antiflatulent	B14-E03 C14-E03	microbial	B02-V02 B04-B04C1 C02-V02	Antihydrolase	B12-G01B3 C12-G01B3
Antifoaming agents	A08-S03		C04-B04C1	general and other	B14-D07 C14-D07
Antifoggants (photographic)	G06-H03		B04-B04C8 C04-B04C8	Antihypercholesterolaemic	B12-H03 B14-D02A2 C12-H03 C14-D02A2
Antifouling	B12-A08 C12-A08 C14-B15	cancer Allergen	B04-B04C9 C04-B04C9 B04-B04C2 C04-B04C2	Antihypertensive	B12-F05 B14-F02B C12-F05 C14-F02B
additive for paints	A08-M02	other	B14-D07B C14-D07B	Antihypotensive	B12-F04 B14-F02A C12-F04 C14-F02A
additives				Antihypothermia	B14-C05 C14-C05
bactericidal, fungicidal etc.	G02-A03B			Antihypoxemia	B12-K06 B14-K01 C12-K06 C14-K01
coatings	G02-A05G	Antiglycosidase			
for paints	G02-A03B	Antigout	B12-G03 B14-C02 C12-G03 C14-C02	Antiicing additive (fuels)	H06-D03
polymer scale build-up				Antiimplantation	B12-K03 B14-P01B C12-K03 C14-P01B
prevention	A08-S08	Antigreying agents (in detergents)	D11-B01C B12-A01 B14-A01A C12-A01 C14-A01A	Antiinflammatory	B12-D07 C12-D07
soil repellents	A08-S08	Antihaemophilus		general	B14-C03 C14-C03
Antifouling coatings	G02-A05G			Antisomerase	B12-G01B5 B14-D09 C12-G01B5 C14-D09
Antifreeze	A12-W11G G04-B01 H08-D02	Antihaemorrhage	B12-H04 B14-F08 C12-H04 C14-F08	Antikinasases	B14-D06C C14-D06C
Antifungal	B12-A02C C12-A02C	Antihaemorrhoids	B12-J04 B14-E04 C12-J04 C14-E04	Antiknock additives (fuels)	H06-D04
Aspergillus	B14-A04A C14-A04A			Antileprotic	B12-A03 B14-A01B1 C12-A03 C14-A01B1
Candida	B14-A04B C14-A04B			Antilichen	B12-A02B B14-B08 C12-A02B C14-B08
Microsporum	B14-A04C C14-A04C				
Trichophyton	B14-A04C C14-A04C				
additives	A08-M02	Antihalation agents, photographic	G06-A02		
general	B14-A04 C14-A04	Antihardeners, photographic Antihelminthic	G06-H14 B12-B02 B14-B03 C12-B02 C14-B03		
Antifungal (plant)					
Alternaria	C14-A06A				
Botrytis	C14-A06B				
Fusarium	C14-A06C				



Antiligase	B12-G01B6 B14-D10 C12-G01B6 C14-D10	Antimycobacterial	B12-A03 B12-A04 B14-A01B1 C12-A03 C12-A04 C14-A01B1	Antipepsin	B12-G01B3 B14-D07C C12-G01B3 C14-D07C
Antilipaemic	B12-H03 B14-F06 C12-H03 C14-F06	Antimycoplasma	B12-A01 B14-A01A4 C12-A01 C14-A01A4	Antipeptide hormone activity	B14-D02B C14-D02B
Antilisteria	B14-A01B C14-A01B	Antimycotic	B12-A02 B14-A04 C12-A02 C14-A04	Antipeptide hydrolase	B14-D07C C14-D07C
Antilyase	B12-G01B4 B14-D08 C12-G01B4 C14-D08	Antineoplastic	B12-G07 B14-H01 C12-G07 C14-H01	Antiperoxidase	B14-D05B C14-D05B
Antimalarial	B12-B03 B14-A03B C12-B03 C14-A03B	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiperspirant	B12-L01 B14-R03 C12-L01 C14-R03
Antimetabolite	B12-G01 C12-G01	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiphlogistic	D08-B09B2 B12-D07 B12-D08 B14-C04 C12-D07 C12-D08 C14-C04
Antimetabolite general and other	B14-L06 C14-L06	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiphosphodiesterase	B14-D07A1 C14-D07A1
Antimetalloprotease	B14-D07C1 C14-D07C1	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiphthisic	B12-A04 B12-D02 B12-K02 B14-A01B1 C12-A04 C12-D02 C12-K02 C14-A01B1
Antimicrobial	B12-A01 C12-A01	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiplaque	B14-N06A C14-N06A
additives	A08-M02	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiplasmin	B12-G01 B12-H04 B14-D07C C12-G01 C12-H04 C14-D07C
additives in detergents	D11-B14	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiplumbic agent, photographic	G06-H11
general	B14-A01 C14-A01	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiprogestational	B12-G01A B14-D02A4 C12-G01A4 C14-D02A
Antimitotic	B12-G07 B14-H01B C12-G07 C14-H01B	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiproliferative	B14-H01B C14-H01B
Antimony		Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiproliferative (non-cancerous)	B14-H05 C14-H05
alloys	M26-B	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiprotease	B14-D07C C14-D07C
catalysts	N03-H	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Antiprotozoal	B12-B01 C12-B01
element	B05-A02 C05-A02 E31-M	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	Plasmodium	B14-A03B C14-A03B
Antimony compounds	B05-A02 C05-A02 E31-M	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A	antiprotozoal general	B14-A03 C14-A03
inorganic	E31-M	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
inorganic compound pigment	G01-A16	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
organic	E05-J	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
Antimony containing		Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
flame retardant	A08-F02	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
intumescent agent	A08-B A08-F02	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
material for fabric flame proofing	F03-C03B	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
Antimony production	M25-G02	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
Antimony trioxide flame retardant	A08-F02	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
Antimony-containing		Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		
Antimuscarinic	B14-J02B2 C14-J02B2	Antioestrogenic	B12-G01A B14-D02A3 C12-G01A3 C14-D02A		

Antipruritic	B12-A07 C12-A07	Antispasmodic	B12-E04 B14-J05D	antibody	B04-B04C4 B04-G05
Antipsychotic	B14-J01B3 C14-J01B3		C12-E04 C14-J05D		C04-B04C4 C04-G05
Antipyretic	B12-D08 B14-C04 C12-D08 C14-C04	Antispastic	B12-E02 B14-J05D C12-E02 C14-J05D	Antitussive	B12-K01 B14-K01B C12-K01 C14-K01B
Antirads for polymers	A08-A02	Antispider	B14-B04 C14-B04	Antivenereal	B12-A05 B14-N07C C12-A05 C14-N07C
Antiredeposition	D11-B05				
Antireducataze	B14-D05D C14-D05D	Antistatic agent		Antiviral	B12-A06 C12-A06
Antireverse transcriptase	B14-D06B C14-D06B	for detergents	D11-B05		
Antirhesus factor	C12-G01	for fabrics	F03-C05	adenovirus	B14-A02A1 C14-A02A1
Antirheumatic	B12-D09 B14-C06 C12-D09 C14-C06	for polymers	A08-S04	arbovirus	B14-A02A2 C14-A02A2
		photographic	G06-A03	coronavirus	B14-A02B5 C14-A02B5
Antirickettsia	B14-A01A7 C14-A01A7	Antistatic compositions (non-polymeric)	G04-B03	DNA viruses general	B14-A02A C14-A02A
Antisaccharomyces	B12-A02 B14-A04 C12-A02 C14-A04	Antistatic treatment of fabrics/fibres	A12-S05S F03-C05	general	B14-A02 C14-A02
Antischizophrenic	B14-J01B3 C14-J01B3	Antisteroid general	B14-D02A C14-D02A	hepatitis B virus	B14-A02A5 C14-A02A5
Antiscorch agents	A08-C06 A08-D+ B12-N04 B14-B04 C12-N04 C14-B04	Antistreptomyces	B12-A02C B14-A01B3 C12-A02C C14-A01B3	herpesvirus	B14-A02A3 C14-A02A3
Antisecretory	B12-J02 C12-J02	Antisynthetase	B14-D10 C14-D10	flavivirus	B14-A02B9 C14-A02B9
Antisenility	B12-G04A B14-J01A4 C12-G04A C14-J01A4	Antitarnishing agents, in detergents	D11-B05	influenza treatment	B14-A02B2 C14-A02B2
Antisense DNA	B04-E06 C04-E06	Antithrombin	B14-D07C C14-D07C	Influenza treatment	B14-A02B2 C14-A02B2
Antisense gene therapy	B14-S03B C14-S03B	Antitick	B12-B04 B14-B04A C12-B04 C14-B04A	myxovirus	B14-A02B2 C14-A02B2
Antiseptic	A08-M02 B12-A01 B14-A01 C12-A01 C14-A01	Antitransferase	B12-G01B2 B14-D06 C12-G01B2 C14-D06	papovirus	B14-A02A6 C14-A02A6
Antiserotonergic	B14-J04 C14-J04		B12-C04 B12-E04 B14-J01A3 C12-C04 C12-E04 C14-J01A3	parvovirus	B14-A02A9 C14-A02A9
Antislip compositions (non- polymeric)	G04-B04	Antitremor	B12-B01 B14-A01A C12-B01 C14-A01A	picornavirus	B14-A02B3 C14-A02B3
Antislow-release substance of anaphylaxis	B12-D02D C12-D02D		B12-C04 B12-E04 B14-J01A3 C12-C04 C12-E04 C14-J01A3	poxvirus	B14-A02A4 C14-A02A4
Antismoking	B12-J05B B14-M01B C12-J05B C14-M01B	Antitubercular	B12-A04 B14-A01B1 C12-A04 C14-A01B1	reovirus	B14-A02B7 C14-A02B7
			B12-G07 B14-H01 C12-G07 C14-H01	retrovirus	B14-A02B1 C14-A02B1
		Antitumour		rhabdovirus	B14-A02B4 C14-A02B4
				RNA viruses general	B14-A02B C14-A02B
				togavirus	B14-A02B6 C14-A02B6
				Antiviral (plant)	C14-A02B8
				Antiyeast	B12-A02C B14-A04 C12-A02C C14-A04
				Anxiety relieving	B12-C10 B14-J01B4 C12-C10 C14-J01B4

Anxiolytic	B14-J01B4 C14-J01B4	circuits	M23-D01B3	(co)polymers, others	A04-B10
Apoptotic	B14-H03 C14-H03	flux	M23-D01B2	monomers, ester	A01-C01
Apparatus for		gas	M23-D01B2	monomers, substituted	
addition		holders	M23-D01B1	excluding ester	A01-C02
(co)polymerisation	A10-B01	methods	M23-D01A	monomers, unsubstituted	A01-C03
catalysts	N06-D	nozzles	M23-D01B1	Aromatic hydrocarbon	B10-J02 C10-J02 E10-J02B
chemical process	E11 J04-X	seam	M23-D01A1		
combinatorial chemistry	E11-K02 B11-C01B C11-C01B	specifically adapted for		production by	
concrete article manufacture	L02-D04C	particular articles	M23-D01A4	disproportionation	E10-J02B1
optical glass fibre		submerged	M23-D01A3	production by	
manufacture	L01-F03K	torches	M23-D01B1	hydrodealkylation	E10-J02B1
pharmaceutical/		wire feed	M23-D01B2	production by other methods	E10-J02B3
agricultural composition		Areas, sports	A12-F01A	purification	E10-J02B2
production	B11-C C11-C	Argentite, argentous		uses	E10-J02B4
		compounds - see Silver		Aromatic monoolefinic	
polycondensation	A10-D04	Argon (element)	B05-B02C C05-B02C E31-J	(co)polymers	A04-C+
recycling waste water	D04-A06			monomers, substituted	A01-D02
Apparel, wearing	A12-C+ F04-C	Argon compounds		monomers, unsubstituted	A01-D03
		inorganic	B05-B02C C05-B02C E31-J	Aromatic oils extenders for	A08-P08
		organic	B05-B02C C05-B02C E05-K	Aromatic polyamide fibres	A05-F05
Appetite				chemical features	F01-D03B
depressant	B12-J02 B14-E12 C12-J02 C14-E12	Arm, artificial	D09-C01D	dyeing/printing	F03-F06+
		polymer use in	A12-V02	Aromatic polyamides	A05-F05
stimulant	B12-J01 B14-E11 C12-J01 C14-E11	Armaments	A12-T03D+	Aromatic polyether excluding	A05-H07
		Armatures	A12-E08B	phenoxy resin	
		Arming mechanisms	K03-A03	Aromatic sulphonic acid	D11-A01B1
		Aromatic acids, and		detergents	
		derivatives, condensants	A01-E11	Aromatisation of petroleum	H04-E01
		Aromatic compounds		refinery streams	B12-F01A B14-F01A C12-F01A C14-F01A
Aptamer	B04-E07F C04-E07F D05-H12D10	3 or more rings fused		Arrhythmia treatment	
		general	B08-H C08-H E08-H		
Aqueous				Arsenic	
dispersions	A07-B	3 rings fused	B08-D C08-D E08-D	catalysts	N03-H
dispersions of acrylic				element	B05-B02B C05-B02B E31-L
polymers	A07-B02	4 rings fused	B08-C C08-C E08-C	glass compositions	L01-A07A
dispersions of natural or				Arsenic compounds	
condensation polymers		5 rings fused	B08-B C08-B E08-B	inorganic	B05-B02B C05-B02B E31-L
(non-rubber)	A07-B04			organic	B05-B01C C05-B01C E05-H
dispersions of other	A07-B03	6 or more rings fused	B08-A C08-A E08-A	Arsenic production	M25-G03
addition polymers	A07-B01			Arsenide	
dispersions of rubbers	A12-B01A G02-A+ A12-S	1-2 rings fused	B10 C10 E10	ceramics	L02-H05
paints and coatings				glass	L01-A07
solutions of polymers		Aromatic dicarboxylic acid(s)		Arteriosclerosis treatment	B14-F07 C14-F07
Arachnide	B14-B04 C14-B04	production	E10-C02C1B	Artherosclerosis treatment	B14-F07 C14-F07
Arachnids	B04-P01C C04-P01C	use	E10-C02C2B	Arthropodicide	B14-B04 C14-B04
Aramids	A05-F05	Aromatic dicarboxylic acid(s)		Arthropods	B04-P01C C04-P01C
fibres, chemical features of	F01-D03	+ aromatic diamine(s) based	A05-F05		
fibres, dyeing/printing	F03-F06+	polyamide			
Arc extinguishing gases for	L03-B04	Aromatic diolefinic			
contact breakers	M23-D01	(co)polymers, ester	A04-B09		
Arc welding and cutting	M23-D01B4				
apparatus					
build-up	M23-D01A2				

Artificial - see under the artifact (e.g. for artificial fur - see fur, artificial)		Attenuators for optical circuits	L03-G02	Azirine	B07-D01
Aryl of metal, catalyst	N05-A	Audio magnetic tape	A12-E08A1		C07-D01
Arylated - see Alkylated		Aural	B12-L04		E07-D01
Aryloxide of metal, catalyst	N05-A		B14-N02	Azo catalysts for polymerisation	A02-A02
Asbestos	E31-P04		C12-L04	Azo compounds	B10-A16
disposal	L02-B07		C14-N02		C10-A16
fibres	F01-D09	Auric, aurous compounds - see Gold			E10-A16
fillers	A08-R02	Autoclaves for concrete			E10-A16A
paper	F05-A06+	article heat treatment	L02-D04C	polymerisation catalyst	E10-A16B
production	L02-B07	Autoclaving concrete	L02-D04	Azo dye	A02-A02
products	L02-D11	Autoclaving concrete articles	L02-D04B		A08-E03A+
Ascaricide	B12-B02	Autoimmune disease treatment	B12-D02A		E21
	C12-B02		B14-G02D	couplers	E26-A
Ascorbic acid	B03-F		C12-D02A	dis- and polyazo	A08-E03A3
	C03-F		C14-G02D	reactive	E21-D
	E03	Automated fermentation vessel	D05-A03B	water insoluble	E21-C
	E07-A02	Automated yarn spinning system	F01-G04	water insoluble, disazo	E21-C02
aseptic environment	D09-B03	Automatic refinery control equipment	H05-J	water insoluble, for dyeing textiles, general	F03-F16B
Aspergillus	B04-B02B2	Automation in processing		water insoluble, for polyamide textiles	F03-F06B
	B04-F09A	involving extruders	A09-D02	water insoluble, for polyester textiles	F03-F07B
	C04-B02B2	involving moulding	A09-D01	water insoluble, monoazo	A08-E03A2
	C04-F09A	involving other processes	A09-D03		E21-C01
Asphalt	A03-C03	Automotive fabrics and products	F04-E03	water insoluble, polyazo	E21-C03
	B04-D02	Automotive parts/accessories	A12-T+	water soluble, cationic	E21-A
	C04-D02	Autonomic nervous system		water soluble, for dyeing textiles, general	F03-F16A
	H08-B	active	C12-E01	water soluble, for polyamide textiles	F03-F06A
composition	L02-D10	general and other	B14-J02	water soluble, for polyester textiles	F03-F07A
ground covering	L02-D09		C14-J02	water soluble, monoazo	A08-E03A1
Assemblies of semiconductor devices - general	L04-F	Autonomic nervous system		water soluble, not cationic	E21-B
Astatine compounds		active (general)	B12-E01	Azobisisobutyronitrile	
inorganic	B05-A04	Auxiliaries for		blowing agent	A08-B03
	C05-A04	dyeing/printing fibres	F03-F32	crosslinker for addition / ethylenically	
	E35-Y	paper	F05-A06+	unsaturated polymers	A08-C09
organic	B05-A04	weaving apparatus	F02-A05	crosslinker for other polymers	A08-D04
	C05-A04	Avermectin	B02-A	polymerisation catalyst	A02-A02
	E05-Q		C02-A	Azocine	B07-D06
Astatine element	B05-A04	Avicide	B12-N05		C07-D06
	C05-A04		B14-B10		E07-D06
Asthma treatment	B12-D02		C12-N05	Azonine	B07-D06
	B12-K02		C14-B10		C07-D06
	B14-K01A	Azamethine dye	E25-C		E07-D06
	C12-D02	Azaphenothiazine	B06-F05	Azoxy	B10-A03
	C12-K02		C06-F05		C10-A03
	C14-K01A		E06-F05		E10-A03
Astringent	B12-L01		B07-D06	dye see under Azo dye	
	B14-R03		C07-D06		
	C12-L01		E07-D06		
	C14-R03	Azete	B07-D01		
	D08-B09B		C07-D01		
Atherosclerosis treatment	B12-H03		E07-D01		
	B14-F07	Azide (inorganic)	B05-C03		
	C12-H03		C05-C03		
	C14-F07		E31-H		
Atomic engineering - see Nuclear engineering		Azide (organic)	B10-A16		
Atomising	J02-C01		C10-A16		
apparatus for atomising	D09-B01B		E10-A16		
			E10-A16A		
			E10-A16B		

## B

B-Alkylation	E11-F10	Bandages	A12-V03A	Beans	
Baby food	D03-S		B12-M02D	cutting	D03-J09
Baby napkins	A12-V03A	textiles for use as	C12-M02D	peeling	D03-J07
	F04-C01A	Bands of textile	D09-C	washing	D03-J08
with special shape	D09-C03	Bar mills (metal rolling)	F04-E04	Bearings, bearing surfaces	A12-H03
Bacillus	B04-B02B1	Barium catalysts	F02-E02	Beating in paper making	F05-A03
	B04-F10B1	Barium compounds	M21-A03A	Bed linen	A12-D01
	C04-B02B1		N01-B	of fabric	F04-D01
	C04-F10B1	inorganic	B05-A01B	Beds, bedding	A12-D01
Bacitracin	B02-B	organic	C05-A01B	Beef	D02-A03B
	C02-B	Barium ferrite magnetic compositions	E34-D03D	Beehives	A12-W04+
Backing layers for magnetic recordings	L03-B05K2	Barium production	E05-B01	Beer	D05-B02
Bacteria	B04-B02B1	Barium sulphate filler/ reinforcing agents	L03-B02B1	Beet residue, animal feeds from	D03-G04
	C04-B02B1		M25-G05	Belladonna alkaloid	B04-A01
	D05-H04		A08-R		C04-A01
general	B04-F10	Bark	G01-A01	Belts	
	C04-F10		B04-A07D3	clothing	A12-C03
gram-negative	B04-F10A		B04-A09G		F04-C04
	C04-F10A	extracts	C04-A07D3	conveyor	A12-H01
gram-positive	B04-F10B		C04-A09G		F04-E07
	C04-F10B	Barrier creams	B04-A10H	paper making	F04-E05A
recombinant	D05-H14A1		C04-A10H	safety, vehicle	F04-E03B
Bacterial antigens			A12-V04C	vehicle safety	A12-T04E
as vaccine	B02-V02	Barrier layers, photographic	D09-E03	Bending	
	C02-V02	Basic dyes for dyeing/ printing fibres	G06-A08	glass	L01-G10
Bactericidal additives - see Antifouling additives		Basic oxygen furnaces (steelmaking)	F03-F22	metal tubes	M21-B04
Bactericides	B12-A01	Basic refractories	M24-B02C	polymer films, sheets, tubes, pipes	A11-B08+
	C12-A01	Basidiomycetes cultivation	L02-E04	sheet metal	M21-E01
for fabrics	A12-S05R	Basins	D05-A04C	Benzazepine	B06-D04
	F03-C02B	Baths	A12-R02		C06-D04
for polymer	A08-M02	Bats (sports equipment)	A12-R02	Benzazocine	B06-D04
for wood	F05-B01	Batter	A12-F01B		C06-D04
general	B14-A01	mixing			E06-D04
	C14-A01	products	D01-A05	Benzene disulphonic acids derived polyesters	A05-E
photographic	G06-H02	transporting	D01-B02F	Benzimidazole	B06-D05
polymer agricultural use	A12-W04C	Batteries	D01-A03		C06-D05
Bacteriophage	B04-F11		A12-E06+		E06-D05
	C04-F11	component production	L03-E	condensants	A01-E06
Bag making, cutting films for	A11-A05C	recharging	L03-E08+	polymers	A05-J02
Bags made of polymer	A12-P02	Battery electrodes	L03-E09	Benzisothiazole	B06-F01
Baits	B12-N03	for alkaline cells			C06-F01
	B14-B14	graphite and carbon	L03-E01B5		E06-F01
	C12-N03	of Ni and Cd	L03-E01B3	Benzisoxazole	B06-E01
	C14-B14	of silver (oxide)	L03-E01B4		C06-E01
Baker's yeast production	D05-B04	of zinc (oxide)	L03-E01B7		E06-E01
Bakery products	D01-B02	organic materials	L03-E01B6	Benzo(b)furan	B06-A01
containers for	D01-A04	other inorganic materials	L03-E01B9		C06-A01
equipment for		polymer use in	L03-E01B8		E06-A01
transporting	D01-A03	production	A12-E06A	Benzo(c)furan	B06-A02
handling of	D01-A	Battings (textile)	L03-E08B		C06-A02
treatment after cooking	D01-A06	Batts	F02-C01		E06-A02
Baking	D03-K01	Bead polymerisation - see Suspension polymerisation	F01-E09A	Benzocinnoline	B06-D16
Balata	A03-B	Beaming (textile)	F02-A01		C06-D16
Bale breaking	F01-F03			Benzodiazepine	B06-D07
Balls (sports equipment)	A12-F01B				C06-D07
					E06-D07

Benzodiazocine	B06-D07 C06-D07 E06-D07	Benzoxazepine	B06-E03 C06-E03 E06-E03	Bile active	B12-C02 B14-N12 C12-C02 C14-N12
Benzoguanamine (condensant)	A01-E01 E07-D13	Benzoxazine	B06-E02 C06-E02 E06-E02	Bile extracts	B04-B04H C04-B04H
Benzoguanamine - formaldehyde resin	A05-B	Benzoxazocine	B06-E03 C06-E03 E06-E03	Bilharzia treatment	B14-B03B C14-B03B
Benzoin				Binders (see also Adhesive)	
crosslinkers for ethylenically unsaturated polymers	A08-C	Benzoxazole	B06-E01 C06-E01 E06-E01	(meth)acrylamide (co)polymer, use in	A04-D04A1
crosslinkers for other polymers	A08-D			(meth)acrylate (co)polymer, use in	A04-F06E6
photopolymerisation catalysts	A02-A09	Benzoyl peroxide	E10-A04	(meth)acrylic acid/ anhydride copolymer, use in	A04-F04B
Benzophenones		crosslinker for ethylenically unsaturated polymers	A08-C05	compositions	A12-A05+
crosslinkers for ethylenically unsaturated polymers	A08-C	crosslinker for other polymers	A08-D	electrophotographic epoxy resins, use in	A12-L05D A05-A01E3
crosslinkers for other polymers	A08-D	redox polymerisation catalyst system component	A02-A03	for concrete	L02-C
photopolymerisation catalysts	A02-A09	sole polymerisation catalyst species	A02-A01 B05-A04	for core moulds	A12-A02
Benzopteridine	B06-D17 C06-D17 E06-D17	Berkelium compounds	C05-A04 E35-R E05-Q	for earth consolidation	A12-A02
1-Benzopyran	B06-A01 C06-A01 E06-A01	inorganic organic		for food	D03-H01R
		Beryllium		for foundry moulding (inorganic)	M22-A02
Benzothiadiazine	B06-F03 C06-F03 E06-F03	alloys	M26-B11	for foundry moulding (organic)	M22-A03
		catalysts	N01-B	for magnetic layers and dispersions	L03-B05D4
Benzothiazepine	B06-F03 C06-F03 E06-F03	Beryllium compounds	B05-A01B C05-A01B	for non-woven fabrics	A12-B02B F02-C02B1
		inorganic organic	E34-A E05-B01	for oil wells	A12-W10C
Benzothiazine	B06-F02 C06-F02 E06-F02	Beryllium production	M25-G06	for photography	A12-L01 G06-A06
Benzothiazocine	B06-F03 C06-F03 E06-F03	Beta alumina separator tubes	L03-E04A	from petroleum products	H08-E08
		Beta-adrenergic blocker	B12-E06B B14-J02D2 C12-E06B C14-J02D2	phenol-formaldehyde resin, use in	A05-C03A
Benzothiazole	B06-F01 C06-F01 E06-F01			phenolic resins, use in	A05-C01B1
		Beverages (see also Food)	B12-J01 B14-E11 C12-J01 C14-E11	polyethylene, use in	A04-G02E1
Benzothiophene	B06-B01 C06-B01 E06-B01	alcoholic alcoholic treatment of non-alcoholic	D05-E D05-F D03-H01	PVA, use in	A10-E09B1
Benzotriazole	B06-D08 C06-D08 E06-D08	Biaxial drawing of film	AT1-B02A A12-S06B	PVC, use in	A04-E02E2
		Bicarbonate blowing agent	A08-B02	saturated polyester, use in	A05-E01D1
Benzoxathiazine	B06-G C06-G E06-G	Bicarbonates - inorganic	B05-C04 C05-C04 E31-N05	silicon polymer, use in	A06-A00E1
		Bichromated gelatin, photographic	G06-F03+	Binding enzymes to carriers to polymeric carriers	D05-A01C2 A12-W11L
Benzoxathiazole	B06-G C06-G E06-G	Bicomponent filaments	A12-S05B F01-E01+	Biochip	B11-C08E6 C11-C08E6
Benzoxathiin	B06-C C06-C E06-C	Biguanide	B10-A17 C10-A17 E10-A17 E10-A17A E10-A17B	Biocides	B12-A01 B14-A01 C12-A01 C14-A01 D09-A01 H06-D08 A08-M02
Benzoxathiole	B06-C C06-C E06-C	Biguanide polymers	A05-J11	Biodegradability of polymers	A09-A07
				Biodegradable detergents (or additive)	D11-D06
				Biodiesel	H06-B04A
				Bioflavanoids	B03-K C03-K
				Biofuels	H06-B07

Bioinformatics	B11-C08F+ C11-C08F+	Bismuth compounds	B05-A02 C05-A02	colour (photographic)	G06-G11
Biological gas separation methods	J01-E03H	inorganic	E35-M	composition	
Biological procedures in tests	B11-C08E C11-C08E	organic	E05-J	(non-photographic)	G04-B08
Biological repellents for fabrics	A12-S05R F03-C02B	Bismuth production	M25-G07	enzymatic	D11-B01D3
Biological warfare agents protection against	K02-A02	Bisphenol A	E10-E02D4	fabrics	F03-B01
Biological water treatment	D04-A01J J01-D07	condensant	A01-E13	hair	D08-B06
Biomass	B04-D03 C04-D03	diallyl ether monomer	A01-C02	paper pulp	F05-A02B
Biomass conversion	E11-I	diglycidyl ether	A05-A02	process	A11-A01B
Biomass production by fermentation	D05-C13	epihalohydrin polyethers	A05-H06	using specific compositions	A11-A01A
Bioremediation using microorganisms	M25-F02	epoxy resins based on	A05-A02	wood	F05-B
Biorientation - see Biaxial drawing		phenoxy resins based on	A05-H06	Blending (see also Mixing)	
Biosynthesis	B11-A C11-A D05-A D05-C	Bisquaternary ammonium compounds	B10-A21 C10-A21 E10-A21	equipment	A11-A03A
using algae	B11-A03 C11-A03	Bitumastic compositions	L02-D10	polymer compositions	A11-A03+
on hydrocarbon substrates	H04-E02	Bitumen	A03-C03 B04-D02 C04-D02 H08-B	yarn processes	F01-F
using enzymes	B11-A02 C11-A02	in polymeric blend	A07-A01A	Blends of polymers (see also Mixtures)	A07-A+
using microorganisms	B11-A01 C11-A01	Bituminous plastics	A03-C03	containing addition	
Bird killing	B12-N05 B14-B10 C12-N05 C14-B10	Black and white silver halide		(co)polymers only	A07-A02+
Bird repellents	B12-N05 B14-B13 C12-N05 C14-B13	bleach-fixing	G06-G02	containing addition and	
Birth control devices	A12-V03B1 B12-K03 B14-P01 C12-K03 C14-P01	developing	G06-G01	condensation polymers	A07-A04+
Bis(hydroxyethyl)-terephthalate	A05-E04A	fixing	G06-G02	containing condensation	
Biscuits	D01-B02C	other processes	G06-G04	polymers only	A07-A03+
Bishaloformates		stabilisation	G06-G03	containing natural polymers	A07-A01+
+diamine based		Blades		Blinds (for windows etc.)	A12-R02
polyurethane	A05-G	aircraft propeller	A12-T04	Blister packs	A12-P06C
condensants	A01-E12	fan	A12-H	Blixing, photographic	G06-G02
Bismaleimide		for cutting plastics	A11-A05+	Block copolymerisation	A10-C02
(co)polymers by addition	A04-B11	razor	A12-V04	Blocked polyisocyanates	
monomer	A01-C06	turbine	A12-H	crosslinkers	A08-D04A
Bismaleimide-amino polymer - see Polyamino-bismaleimide		Blankets		Blocking agents	
Bismuth		bedding	A12-D01 F04-D01	for condensants/monomers	A02-C
alloys	M26-B	electric	A12-D01 A12-E10	for crosslinkers, for	
catalysts	N03-H	non-woven	F02-C01	ethylenically unsaturated	
		printing	A12-W07F	and addition (co)polymers	A08-C06
		Blast furnace pig manufacture	M24-A02	for crosslinkers, for	
		by applying additives	M24-A02A	other polymers	A08-D+
		making slags of special		Blood	B04-B04D C04-B04D
		composition	M24-A02B	Albumin (serum)	B04-B04D2 C04-B04D2
		Blasting	K03-B	bags	A12-V03B
		compositions	A12-T03A	blood proteins	B04-B04D2 C04-B04D2
		gas generation for	K04-C	dialysis	J01-C03B1
		Blasting-caps	K04-B01	filtration	J01-F04X2
		Bleach activators	D11-B01D1	Haemoglobin	B04-B04D2 C04-B04D2
		booster	D11-B01E	handling apparatus	A12-V03B
		catalysts for	D11-B01D2	parasite	B04-B02B C04-B02B
		Bleaching		parasite (microbial)	B04-F01 C04-F01
		agents (optical), detergent	D11-B01	parasite (nonmicrobial)	B04-P01 C04-P01
		agents (optical), inorganic	A08-E02	plasma	B04-B04D4 C04-B04D4
		agents (optical), organic	A08-E03C	serum	B04-B04D4 C04-B04D4
		apparatus	A11-A01B		
		black and white			
		(photographic)	G06-G02		
		catalysts for dye bleaching	G06-C03		

substitutes	B12-H06	BMC	A12-S	Bone Morphogenetic Protein	B04-H06L
	B14-F11	Board games	A12-F01		C04-H06L
	C12-H06	Boards	A12-A04+	Book binding	A12-W07+
	C14-F11	cardboard	F05-A06+	Boots - see Footwear	
sugar increasing	B14-F10	chipboard	A12-A04B	Borate containing glass compositions	L01-A06
	C14-F10		F05-A07		E05-C
sugar lowering	B12-H05	decorative	A12-A04A	Borazoles	E05-C01
	B14-F09	fibreboard	A12-A04B		E05-C02
	C12-H05		F05-A07		A01-A01
vessels, artificial	C14-F09	gypsum	A12-R01A	condensants/monomers	B04-F10A1
	A12-V02		L02-D07A	Bordetella	C04-F10A1
	D09-C01B	particleboard	A12-A04B		M26-B12
whole blood	B04-B04D5		F05-A07	Boride containing hard alloys	
	C04-B04D5	plywood	A12-A04C	Borides	
Blood cells	B04-F04		F05-B	abrasive	L02-F03
	C04-F04	Bobbin handling, in winding (textile)		ceramic	L02-H02B1
Red blood cells	B04-F04A		F01-H03C	Boriding metals	M13-D
	C04-F04A	Bobbin lace	F02-E01	using gases	M13-D03B
White blood cells	B04-F04B	Bobbins	F01-H03A	using liquids	M13-D02B
	C04-F04B	Body joints, artificial	A12-V02	using solids	M13-D01B
B-lymphocytes	B04-F04B1B		D09-C01D	Boron	
	C04-F04B1B	Body parts preservation (chemical)		catalysts	N01-D
Dendritic cells	B04-F04B2A		D09-A01		N01-D01
	C04-F04B2A		D09-A03	element	B05-B02C
Lymphocytes	B04-F04B1	Body wash	D08-B09A2		C05-B02C
	C04-F04B1	Liquid	D08-B09A2A		E31-Q
Macrophages	B04-F04B2B	Solid	D08-B09A2B	Boron-alkylation	E11-F10
	C04-F04B2B	Boil-in-bag food packs	A12-D03	Boron compounds	
Neutrophil	B04-F04B2C	Boiler feed, anticorrosion additives		condensants/monomers	A01-A01
	C04-F04B2C		A12-W11J	fillers/reinforcing agents	A08-R05
Other white blood cells	B04-F04B2		D04-A03	heat stabiliser for polymers	A08-A04A
	C04-F04B2	Boiling apparatus	J05-A	inorganic	B05-B02C
Others	B04-F04B2D	Boiling pans (sugar)	D06-D		C05-B02C
	C04-F04B2D	Bolts	A12-H12		E31-Q
T-lymphocytes	B04-F04B1A	Bombs	K03-A01	organic	B05-B01A
	C04-F04B1A	Bonding of contacts on electrical components	L03-A01B6		C05-B01A
abnormal number or ratio	B14-F03	Bonding processing in semiconductor manufacture			E05-C
	C14-F03	- general	L04-C17		E05-C01
Blossom retarding (plants)	B12-P03	Bonding, heat sealing	A11-C01+	Boron containing compound	E05-C02
	C12-P03	agents, aids	A08-M01+	crosslinkers for ethylenically	
Blossom stimulating (plants)	C14-U01B	agents, aids, acids, metal		unsaturated polymers	A08-C09
	B12-P03	compound	A08-M01C	for other polymers	A08-D05
	C12-P03	agents, aids, polymeric	A08-M01B	Boron containing compounds	
Blow moulding	C14-U01B	agents, aids, silicon		Boron in polymers	
	A11-B10	compounds	A08-M01D	by addition polymerisation	A04-A
Blowing		fibrous webs to give		by condensation	
	F01-C07A	non-woven fabric	A12-B02B	polymerisation	A06-C
Blowing agents	A08-B+		F02-C02B+	by polymer modification	A10-E22
	A08-B	using adhesive (for		Boron trifluoride	E31-Q
pore formers	A08-B04	specific goods)	A11-C01C	crosslinker for ethylenically	
pressurised gases	A08-B04	using adhesive (general use)	A11-C01D	unsaturated polymers	A08-C09
releasing carbon dioxide	A08-B02	Bone		crosslinker for other	
releasing nitrogen	A08-B03	disorder treatment	B12-J08	polymers	A08-D05
soluble materials	A08-B04		B14-N01	polymerisation catalyst	A02-A04
volatile materials	A08-B04+		C12-J08	Boronising, using solid	M13-D01B
Blowing glass	L01-E03		C14-N01	Borosilicate containing glass compositions	L01-A06
Blowing of tubular films	A11-B07A	Bone (including marrow)	B04-B04E	Borrelia	B04-F10A2
	A12-S06A		C04-B04E		C04-F10A2
Blue sensitive (electro)-photographic layers	G06-C14B	artificial	D09-C01D		
Blueing agents	D11-B01C				



Bottles		Brighteners, photographic	G06-H09	Buckyballs	L02-H04B
glass, coating of	A12-B05	coumarin type	G06-H09C	Buffers (polymerisation control)	A02-D01
	L01-G04A	oxazole type	G06-H09A	Build-up welding (electric arc)	M23-D01A2
plastic	A12-P06A	stilbene type	G06-H09B	Builders for detergents	D11-B03
Bovine Spongiforme		thiazole type	G06-H09D	Building	A12-R+
Encephalopathy treatment	B14-N16A	Brighteners, polymeric		board	L02-D07
	C14-N16A	plating bath additives	A12-W12E	fittings/fixtures	A12-R02+
Bowel disease treatment	B14-E10C	Brightening metals chemically	M14-B	glass in	L01-L01
	C14-E10C	Briquettes (coal)	H09-F	polyethylene, use in	A04-G02E4
Inflammatory bowel disorder	B14-E10C1	Briquetting		polyurethane foam, use in	A12-S02F
	C14-E10C1	coal	H09-F	PVC use in	A04-E02E1
Boxes	A12-P06B	ferrous ore	M24-A01A	unsaturated polyester,	
Bradykinin	B04-C01B	non-ferrous ore	M25-A02	use in	A05-D02E1
	B04-J01	Bristles	A12-S05E	Bulimia	B14-E11D
	C04-C01B		F01-E05		C14-E11D
	C04-J01	Brominated/ bromination of		Bulk colouring	
Braid lace	F02-E01	polymers	A10-E04A	agents	A08-E+
Braiding	F02-E01	Bromine catalysts	N04-D	processes	A11-A01B
Braiding machines	F02-E01	Bromine or derivatives (see		with specific materials	A11-A01A
Brake materials (polymer use)	A12-H10	also Halogen or derivatives)		Bulk dyeing before fibre	
Bran	B04-A07D	Bromo - (see also Halo-)		formation	F03-F30
	B04-A09F	Bromostyrenes		Bulk graft copolymerisation	A10-C03C
	C04-A07D	(co)polymers	A04-C	Bulk moulding compounds	A12-S
	C04-A09F	monomer	A01-D02	Bulk polymerisation	A10-B02
extracts	B04-A10G	Bromosulphonated/		Bulked fibres	A12-S05C
	C04-A10G	bromosulphonation of			F01-E01A
Brazing	M23-A	polymers	A10-E12B		F01-E04
apparatus	M23-A03	Bronchitis treatment	B12-K06	Bulking of fibres	F01-H04
fluxes	M23-A02		B14-K01	Bulking polymeric films/fibres	A11-B02D
metal compositions	M23-A01		C12-K06	Bumpers, vehicle	A12-T04D
methods	M23-A04		C14-K01	Bunt treatment	C14-A06S
printed circuits (including		Bronchoconstrictors	B14-K01C	Buoys	A12-T
soldering)	L03-H04E6		C14-K01C	Buried layer formation in	
Bread	D01-B02A	Bronchodilators	B12-K02	semiconductors	L04-C10G
Break detection in winding	F01-H03B		B14-K01D	Burn treatment	B12-A07
Break spinning	F01-G05		C12-K02		B14-N17A
Breathing apparatus	K02-B		C14-K01D		C12-A07
Brewer's yeast production	D05-B04	Broncholytics	B12-K02		C14-N17A
Brewing	D05-B		C12-K02		
devices	D05-J	Bronchospasmolytics	B12-E02	Burr removal on	
Bridged carbocyclic			B12-K02	metal castings	M22-G03H
metallocenes	E05-V02		C12-E02	polymers	A11-A05B
Bridge construction	A12-R		C12-K02	Butadiene	E10-J02C
Brighteners for metal		Brooms	A12-D03	(co)polymers in	
electroplating	M11-B01	Brushes		polymeric blends	A07-A+
Brighteners for paper,		electrical	A12-E08B	copolymer with acrylonitrile	A04-B04
cardboard	F05-A06D	fibre/filaments use in	F04-G	copolymer with styrene	A04-B03+
Brighteners, fluorescent		hair	A12-V04A	copolymer with styrene	
(textile)	E24-A	household	A12-D03	and acrylonitrile (ABS)	A04-C03
	E24-A04	paint	A12-D03	copolymers (other)	A04-B05
benzoxazole type	E24-A02	shaving	A12-V04	diepoxide	A05-A
	E24-A04B	tooth	A12-V04B		E07-A03A
coumarin type	E24-A02	Bryophytes	B04-A08A	homopolymers	A04-B02+
	E24-A04B		C04-A08A	homopolymers production	A04-B02A
other	E24-A03	BSE treatment	B14-N16A	monomer	A01-C05
	E24-A04C		C14-N16A	Butane diol	E10-E04H1
stilbene type	E24-A01	Bubbles, magnetic	L03-B06	condensant	A01-E14
	E24-A04A	Buckets	A12-D04	diglycidyl ether	A05-A03
Brighteners, optical		Buckminsterfullerene	B05-U02		E07-A03B
inorganic	A08-E02		E05-U02	Butane diol + isocyanate	
organic	A08-E03C		L02-H04B	based polyurethane	A05-G04

Butene-1	E10-J02C
copolymer with ethylene	A04-G06+
copolymer with propylene	A04-G09
copolymers, other	A04-G04
homopolymer	A04-G04
monomer	A01-D13
Butt welding, resistance	M23-D02A1
Butter	D03-B
	D03-B12
Butter substitutes	D03-C
Button holes for garments	F04-C04
Button holes, cutting fabric for	F04-F01
Button holes, sewing of	F02-F01A1
Buttons	A12-C03
	F04-C04
Butyl lithium polymerisation catalyst (excluding with transition metal (compounds))	A02-A07B
Butyl rubber	A04-G05A
Butylated melamine-formaldehyde resin	A10-E08C
Butylene - see Butene-1	

## C

CAB	A03-A02
	A03-A03
Cabinets	
as furniture	A12-D01
for electrical goods	A12-E05
Cable drilling	H01-B04
Cables	
optical, coatings	G02-A05H
Cables (see also Electrical)	A12-P07
	F04-A
	L03-A01B1
	A12-B07C
coatings on polymeric foam use in	A12-S04E
insulation	A12-E02+
joints	L03-A01B2
optical	A12-L03A
optical glass fibre	L01-F03L
textile	F04-A
Cabling of yarn	F01-H01
Cacheixia treatment	B14-E11B
	C14-E11B
Cadmium	
alloys	M26-B07
catalysts	N03-F02
electrodes for batteries	L03-E01B4
Cadmium compounds	B05-A03B
	C05-A03B
as pigment or filler	G01-A03
inorganic	E35-D
organic	E05-M
	E05-M03A
Cadmium production	M25-G09
Cadmium selenide	L04-A03B
Cadmium sulphide	L04-A03A
Caesium see Cesium	
Caffeine	B04-A06
	C04-A06
Cake	D01-B02B
Calciferol	B03-G
	C03-G
Calcitonin	B04-B02D3
	B04-J04A
	C04-B02D3
	C04-J04A
Calcium agonists	B14-F02A
	C14-F02A
Calcium alloys	M26-B
Calcium aluminate cements manufacture	L02-C07
Calcium aluminate sulphate trihydrate cements manufacture	L02-C05
Calcium antagonists	B14-F02B2
	C14-F02B2
Calcium Carbonate	E34-D03A
Calcium carbonate filler/ reinforcing agent	A08-R
	G01-A01

Calcium catalysts	N01-B
Calcium compounds	B05-A01B
	C05-A01B
inorganic	E34-D
organic	E05-B01
Calcium entry blockers	B12-F05B
	B12-G01
	B14-F02B2
	C12-F05B
	C12-G01
	C14-F02B2
Calcium halides	E34-D02
Calcium hydroxide	E34-D01
Calcium nitrate	E34-D03
Calcium oxide	E34-D01
	L02-B01
Calcium production	M25-G05
Calcium sulphate	E34-D02
cements	L02-C05
Calcium sulphites	E34-D03
Calendering, calenders of fabrics	A11-B03
	F03-A01
Calenders, for papermaking machines	F05-A05
Californium compounds	B05-A04
	C05-A04
inorganic	E35-R
organic	E05-Q
Calmant	B12-C10
	B14-J01B4
	C12-C10
	C14-J01B4
Cameras	A12-L02A
Camouflage textiles	F04-E02
Camping equipment	A12-F01
Cancer cells	B04-F02A
	C04-F02A
Cancer diagnoses	B12-K04A1
	C12-K04A1
Cancer treatments	B14-H01
	C14-H01
Dermatological cancers	B14-H01C
	C14-H01C
Endocrine cancers	B14-H01D
	C14-H01D
Bladder cancers	B14-H01F6
	C14-H01F6
Breast cancers	B14-H01D1
	C14-H01D1
Thyroid cancers	B14-H01D2
	C14-H01D2
Gastrointestinal cancers	B14-H01E
	C14-H01E
Colon cancers	B14-H01E1
	C14-H01E1
Oesophageal cancers	B14-H01E2
	C14-H01E2
Gall bladder cancers	B14-H01E3
	C14-H01E3
Intestinal cancers	B14-H01E4
	C14-H01E4

Hepatic cancers	B14-H01E5	Candy	B03-E10+	Carbides	E31-N05
	C14-H01E5		C03-E10+		L02-H02
Pancreatic cancers	B14-H01E6	Chewy	D03-E10B+	abrasive	L02-F03
	C14-H01E6	Hard	D03-E10A+	cemented	L02-J01B
Rectal cancers	B14-H01E7	Cannabinoid receptor agonist	B14-L01B	ceramic	L02-H02A
	C14-H01E7		C14-L01B	hard alloys	M26-B12
Stomach cancers	B14-H01E8	Cannabinoid receptor antagonist	B14-L06B	Carbodiimide	B10-A20
	C14-H01E8		C14-L06B		C10-A20
Genitourinary cancers	B14-H01F	Canning of foodstuffs	D03-H02F		E10-A20
	C14-H01F	Cap spinning	F01-G02		E10-A20A
Cervical/uterine cancers	B14-H01F1	Capacitive pastes, thick film	L03-B03C	Carbohydrate (excluding sucrose)	E10-A20B
	C14-H01F1	Capacitors			B04-D01
Kidney cancers	B14-H01F2	electrical, general	A12-E07B		C04-D01
	C14-H01F2		L03-B03		D06-G
Ovarian cancers	B14-H01F3	electrolytic	L03-B03A		D06-H
	C14-H01F3	inorganic	L03-B03G	as detergent additive	D11-B10
Prostate cancers	B14-H01F4	monolithic	L03-B03B	Carbolines	B06-D15
	C14-H01F4	multilayer	L03-B03J		C06-D15
Testicular cancers	B14-H01F5	thick film	L03-B03C		E06-D15
	C14-H01F5	Capillary permeability increasing	B12-H02	Carbomycin	B02-C01
Immunological cancers	B14-H01G		B14-F04		C02-C01
	C14-H01G		C12-H02	Carbon and graphite	
Hodgkin's lymphoma	B14-H01G1		C14-F04	general	L02-H04
	C14-H01G1	Caprolactam	B07-D06	conductors	L03-A02B
Non-Hodgkin's lymphoma	B14-H01G2		C07-D06	Carbon black	B05-C06
	C14-H01G2		E07-D06		C05-C06
Musculoskeletal cancers	B14-H01H	condensant	A01-E04	electroconductive filler	E31-N
	C14-H01H	polyamide (derived from)	A05-F03	filler/reinforcing agents	A08-R03
Osteo cancers	B14-H01H1	Caprolactone	E07-A03C		A08-R03
	C14-H01H1	condensant	A01-E12	pigments	C01-A11
Sarcoma	B12-G07		A01-E14		A08-E02
	C14-12-G07	polyester (derived from)	A05-E02	product from petroleum	C01-A11
	B14-H01H2	Caps (including safety) for bottles etc.	A12-P03	production	H08-E01
	C14-H01H2		B11-C06A	production from petroleum	H04-B01
Neurological cancers	B14-H01J	Capsules (not microcapsules)	C11-C06A	Carbon catalysts	N04-A
	C14-H01J		B12-M11C	supporting Pd or Pt	N02-F01
Brain tumours	B14-H01J1	detergent use	C12-M11C	Carbon ceramics	L02-H04
	C14-H01J1	Car parts and accessories	D11-D02B	Carbon chain expansion/contraction process	B11-C01
Oral and respiratory cancers	B14-H01K	Carbamates inorganic (including thio)	A12-T04+		C11-C01
	C14-H01K	removal from water	E31-H	oligomer-/telomerisation	E11-B
Buccal cavity and pharynx cancers	B14-H01K1	Carbamic acid or ester (organic)	D04-B07C	addition of CO(2)	E11-F01
	C14-H01K1	Carbamic acid, or ester (organic)	E10-A12C1	other chain extension	E11-F02
Larynx cancers	B14-H01K2		B10-A12C	contraction	E11-F03
	C14-H01K2		C10-A12C	Carbon compounds (inorganic)	E11-G02
Lung cancers	B14-H01K3	Carbamides	E10-A12C2	Carbon dioxide	E31-N05
	C14-H01K3		E10-A13B		B05-C04
Other cancers	B14-H01L	Carbapenems	E10-A13B1	Carbon disulphide	C05-C04
	C14-H01L		E10-A13B2		E31-N05
Multiple myelomas	B14-H01L1	Carbazoles	C02-P	Carbon electrodes for batteries	L03-E01B3
	C14-H01L1		C06-D04		
Candida	B04-B02B2		B06-D13		
	B04-F09		C06-D13		
	C04-B02B2		E06-D13		
	C04-F09				
Candles	D10-B03				
disinfection/deodorisation of air	D09-B02				

Carbon fibre	E31-N01 F01-D09A L02-H04A	Carbonic acid	E31-N05C B10-A11B C10-A11B	condensant	A01-E03
dyeing	F03-F12	Carbonic acid esters	B10-A11B C10-A11B	Carboxylic acid amides, thio	B10-D02 C10-D02
graphitisation	E31-N02				E10-D02
printing	F03-F12			Carboxylic acid anhydrides	B10-A25 C10-A25 E10-A25
reinforcing agents	A08-R03A		E10-A11B1 E10-A11B2		E10-A25A1 E10-A25A2
Carbon fillers	A08-R03+ G01-A11	Carbonic anhydrase inhibitor	B12-G01B4 B14-D08 C12-G01B4 C14-D08	condensant, alicyclic	A01-E12
Carbon isotopes	B05-A04C C05-A04C			condensant, aliphatic	A01-E12
Carbon modification	E31-N02			condensant, aromatic	A01-E11
Carbon monoxide	B05-C08 C05-C08 E31-N05B1	Carbonisation, carbonised polymers	A10-E05B	Carboxylic acid anhydrides, monoolefinic (co)polymer (acrylic)	A04-F04
complex catalyst	N05-B	Carbonised lace	F02-E01	(co)polymer (non-acrylic)	A04-F05
copolymer by addition	A04-A05	Carbonising rags	F01-B01	monomer	A01-D08
hydrogen mixture	E31-A	Carbonitriding, using solid	M13-D01B	Carboxylic acid detergents	D11-A01A1
monomer/condensant	A01-A	Carbonium compounds	B10-A01 C10-A01 E10-A01	Carboxylic acid esters	B10-G02 C10-G02 E10-G02
Carbon nanotubes	L02-H04B B05-U03 C05-U03 B05-U04 C05-U04 E05-U03 E05-U04	Carbonylation reaction		plasticiser	A08-P +
double-walled	E05-U03B	hydroformylation	E11-F02A	Carboxylic acid esters, monoolefinic	B10-G02 C10-G02 E10-G02
multiple-walled	E05-U03C	of olefinic bonds	E11-F02A		
single-walled	E05-U03A	Carboxylation reaction (addition of CO <sub>2</sub> )	E11-F02B	aliphatic: (co)polymer (acrylic) - (see also acrylate, alkyl)	A04-F06+
Carbon paper	A12-D05A G05-D	Carbonyl complex catalysts	N05-B	aliphatic: (co)polymer (non-acrylic)	A04-F07
Carbon production (general)	E31-N03	Carbonyl halides		aliphatic: monomer	A01-D10
active	E31-N03C	inorganic	B05-C07 C05-C07 E31-N05	Carboxylic acid esters, thio	B10-G01 C10-G01 E10-G01
diamond	E31-N03A	Carbonyl of metal - see metal			
graphite	E31-N05B	Carbopols®	A04-A03 A04-F04+	Carboxylic acid halides	B10-A25 C10-A25 E10-A25
Inert	E31-N05D	Carboranes	E05-C E05-C01 E05-C02 A01-A01		E10-A25B1 E10-A25B2
Carbon refractories	L02-E07	condensants/monomers		condensant, alicyclic	A01-E12
Carbon sorption (petroleum processing)	H02-B03	Carboxy group formation/formed in polymer (excluding hydrolysis)	A10-E23	condensant, aliphatic	A01-E12
Carbon tetrabromide	E10-H02D E10-H03D2 E10-H04D2	Carboxyalkyl starch	A10-E08C B04-C02B C04-C02B	condensant, aromatic	A01-E11
flame retardant	A08-F04C			Carboxylic acid halides, monoolefinic (co)polymers	A04-E A01-D12
Carbon type fillers	A08-R03+ G01-A11	Carboxylase inhibitor	B14-D08 C14-D08	Carboxylic acid imides	B10-A24 C10-A24 E10-A24A E10-A24B
Carbon use	E31-N04	Carboxylated acrylonitrile-butadiene rubber	A04-B05 A04-D03 A04-F04	Carboxylic acid, alicyclic	B10-C04A C10-C04A E10-C04A
Carbon, element	B05-C06 C05-C06 E31-N L02-H04	Carboxylated styrene-butadiene rubber	A04-B05 A04-C04+ A04-F04+	condensant	A01-E12
Carbon-less paper	A12-D05A G05-D			Carboxylic acid, aliphatic	B10-C04 C10-C04 E10-C04
Carbonates, as detergent additive	D11-B11 D11-B11C	Carboxylic acid amides	B10-D03 C10-D03 E10-D03	condensant containing hydroxy, aldehyde or ketone	B10-C04D C10-C04D
Carbonates, inorganic (general)	B05-C04 C05-C04 E31-N05	aliphatic, monoolefinic (co)polymer uses	A04-D04A+		
		aliphatic, monoolefinic (co)polymers	A04-D04+		
		aliphatic, monoolefinic monomer	A01-D06		

	E10-C04D	multiply materials production	F05-A06A A11-B09B	having adhesive Carrier layers, photographic	A12-A01A G06-A
General acyclic monocarboxylic acid	B10-C04E C10-C04E E10-C04E	Cardiac agents	F05-A04+ F05-A06 B12-F01 B14-F01 C12-F01 C14-F01	Carriers electrophotographic for micro-organisms	A12-L05C2 A12-W11L D05-A03A
Substituted acyclic monocarboxylic acid	B10-C04E1 C10-C04E1	Cardiac arrest treatment	B12-F01B B14-F01B C12-F01B C14-F01B	Cartilage (or extract)	B04-B04E C04-B04E
Other saturated monocarboxylic acid	B10-C04E6 C10-C04E6	Cardiac depressant	B14-F01C C14-F01C	Cartons for fibres	A12-P06B F01-H03A
Other unsaturated monocarboxylic acid	B10-C04E4 C10-C04E4	Cardiac disorder diagnoses	B12-K04A2 C12-K04A2	Cartridges Casein	K03-A01 A03-C01
Carboxylic acid, aromatic	B10-C C10-C E10-C	Cardiac insufficiency treatment	B12-F01B B14-F01B C12-F01B C14-F01B	Casings for batteries	B04-B04A6 B04-N02 C04-B04A6 C04-N02
condensant	A01-E11	Cardiac stimulants	B12-F01B B14-F01B C12-F01B C14-F01B	Cast components electrical other products	A12-E06C L03-E01D A12-E04 A12-W05
Carboxylic acid, di- see Polycarboxylic acid		Carding yarn processes	F01-F01	Cast iron	
Carboxylic acid, mono-unsaturated (non-acrylic) (co)polymers	E10-C04E A04-F05	Cardioactive	B12-F01 B14-F01 C12-F01 C14-F01	alloys treatment production spheroidising	M27-B03 M24-B01B M24-C05
monomer	A01-D08			Castable (slip) refractories	L02-E05
Carboxylic acid, monoolefinic (acrylic) (co)monomer	E10-C04G A01-D08	Cardiotonic	B12-F01B B14-F01B C12-F01B C14-F01B	Casting (slip)	L02-A03
polymer	A04-F04+			Casting glass	L01-D02
polymer adhesives/coatings	A04-F04B	Cardiovascular	B12-E01 B12-F01 B14-F01 C12-E01 C12-F01 C14-F01 C14-F02	Casting metal centrifugal chill continuous control and testing die Directional solidification fettling and post-treatment	M22-G M22-G03B M22-G03C M22-G03A M22-G03J M22-G03D M22-G03L M22-G03H
polymer preparation/ composition	A04-F04A			For aero engines	M22-G03K1A
Carboxylic acid, poly - see Polycarboxylic acid				For IC engines	M22-G03K2
Carboxylic acid, thio	B10-C01 C10-C01 E10-C01			For turbines	M22-G03K1
Carboxylic amide detergents	D11-A01A3	Cards		furnaces, ladles and ancillary equipment	M22-G03G
Carboxylic ester detergents	D11-A01A2	pattern, for knitting machines	F02-B01	ingots for forging	M22-G02
Carboxymethyl cellulose	A03-A04+ B04-C02A2 C04-C02A2 D06-H A03-A04A	pattern, for looms	F02-A02	Investment casting	M22-G03N
uses		punch, for knitting machine	F02-B01	machines and processes	M22-G03
Carboxyvinyl polymer - see Carbopols		Carotenoid	B03-A C03-A	pigs	M22-G01
Carburettors	A12-T04C	Carotenoid dyes	E25-B	Rapid Solidification	
Carburising metal	M13-D	Carpet back coatings	F03-E01 F04-D	Processes	M22-G03M
using gas	M13-D03A	Carpets	A12-D02 F04-D04	treatment of metal in the mould	M22-G03G4
using liquid	M13-D02A		F02-D	vacuum	M22-G03E
using solid	M13-D01A	tufted	F02-A03A	Casting molten ceramics	L02-A05
Carcinogen	B14-H02 C14-H02	woven	F02-A03A	Casting polymers	A11-B04+
Carcinoma	B04-F02A C04-F02A	Carrageenan	A03-A+ B04-C02D C04-C02D	by other specific moulding	A11-B04B
Cardboard	F05-A06+	Carrier		by rotational moulding	A11-B04A
adding (in)organic compounds	F05-A06D			forming films, sheets, lace	A11-B04C
adding polymers or resins to	F05-A06C			with condensant/ monomer and polymerising	A11-B04+
applying coatings to	F05-A06B			Casts (medical)	A12-V03A
coatings on	A12-B03+			Cataleptics	B12-C03
corrugated	F05-A06A				

	B14-J01B	tin	N03-G03	Catarrh treatment	B12-D02
	C12-C03	titanic acids	N03-B01A		B14-K01E
	C14-J01B	titanium element	N03-B01A		C12-D02
catalysts	J04-A02	titanium hydroxides	N03-B01A		C14-K01E
Catalysts	J04-E	titanium oxides	N03-B01A	Catatonic	B12-D10
cadmium	N03-F02	unspecified	N06		B14-J01B1
carrier for petroleum refining	H04-F03	yttrium	N03-A01		C12-D10
carrier for polymerisation	A02-D	zinc	N03-F01		C14-J01B1
carrier, general	J04-E03	Catalytic		Catheters	A12-V03B
carrier, oxide	L02-G12	chain contraction	N07-F05		B11-C04B
cerium	N03-A02A	chain expansion	N07-F05		CT1-C04B
containing phosphorus	E31-K01	cracking	H04-B02		D09-C01F
	N04-B		N07-F02	Cathode ray tubes	A12-E11A
	N05-E01	cyclization	N07-F07	production of	G06-D06
	N06-B03	decyclization	N07-F08	resists used in manufacture	A12-L02B2
composition, petroleum processing	H04-E06	dehydration	N07-F06B	structural parts for	L03-C03
deactivator	A02-C	dehydrogenation of C-C		Cathode sputtering	
dehydrogenation	J04-E04B	bonds	N07-C02	apparatus for	
destruction	A10-G01A	dehydrogenation process		semiconductor manufacture	L04-D02
electrocatalyst	J04-E04D	(other than of C-C bonds)	N07-C03	magnetrons	M13-G02B
fixed bed	N06-C05	dehydroxylation	N07-F06B	Cathodes - see Electrodes	
fluidised bed	N06-C06	detection process	N07-L03B	Cathodic protection	M14-G
for hydrocarbon processing	H04-F	diaphragm	N06-C03	Cathodic sputtering	
for sensor application	J04-E09B	electrode	N06-C02	apparatus including	
fuel cell electrode	L03-E04B1	gas separation	J01-E03F	target materials	M13-G02
gallium	N03-G04	gas treatment	J01-E03F	processes	M13-G01
general	N06	hydrogenation of		Cation exchange resins - see	
germanium	N03-g02	unsaturated C-C bonds	N07-B01	ion exchange resins	
homogenous	N06-C04	hydrolysis	N07-F06A	Cationic detergents	D11-A02
hydrogenation	J04-E04B	membrane	N06-C03	Cationic dyes for dyeing/ printing fibres	F03-F22
indium	N03-G01	nitration	N07-D08C	Cationites - see Ion exchange resins	
lanthanides (general)	N03-A02	oxidation other than with		Cats eyes	A12-R
lanthanides (other than		air or oxygen (O2)	N07-C03	Cattle repellents	B12-N06
cerium)	N03-A02B	oxidation with air	N07-C01		B14-B13
lanthanum	N03-A01	oxidation with oxygen (O2)	N07-C01		C12-N06
lead	N03-G04	processes general	J04-E01		C14-B13
mercury	N03-F02		N07+		A12-R08
oxidation/reduction	J04-E04A	purification processes	N07-L01+	Caulking compositions	G04-B02
palladium carboxylate	N02-F04	reforming	H04-C02		A12-R07
palladium inorganic salt	N02-F05	removal of nitrogen		Ceilings	
platinum carboxylate	N02-F06	oxides from waste gases	E31-H01	Cell control agents for polymers	A08-S07
platinum inorganic salt	N02-F05		N07-L02C	Cellophane	A03-A05
polymer use in	A12-W11K	waste gas treatment	J01-E02D	Cells, electrical	L03-E
polymerisation	A02-A+		N07-L01C	polymer use in	A12-E06+
production, manufacture	H04-F05	waste treatment apparatus	J04-E09A	primary	L03-E02
	J04-E11	Catalytic proteins	B04-L01	primary and secondary, components	L03-E01
promoter	N06-G		C04-L01	primary and secondary, components electrode	L03-E01B
radium	N03-A03	Catamenial devices with special shape	B12-M02D	primary and secondary, components, electrolyte	L03-E01C
recovery from polymer	A10-G01A		C12-M02D	primary and secondary, components, non-active	
recovery with S removal	E31-F01	Cataplastm	D09-C02	component	L03-E01D
regeneration/recovery	J04-E05		A12-V03A	primary and secondary, components, separator	L03-E01A
	N06-E+		B12-M02C	secondary	L03-E03
resin, organic	N05-E03A		C12-M02C	component production	L03-E08
scandium	N03-A01		D09-C04A		
support	N06-F	Cataractic treatment	B12-L04		
support, for polymerisation	A02-D		B14-N03		
support, polymer use as	A12-W11K		C12-L04		
testing	J04-E10		C14-N03		
thallium	N03-G04				
thorium	N03-A03				

Cells, electrolytic	J03-B02	Reptile	B04-F07C	waste water treatment	F05-A02C
polymer use in	A12-E09		C04-F07C	working up waste paper	F05-A02B
Cells, electrolytic (metallurgy)	M28-C	sperm	B04-F03	Cellulosic	
construction and assembly	M28-C03		C04-F03	fibrous suspension,	
electrodes	M28-C01	stem	B04-F02B	manufacture of articles	
operating and servicing	M28-C02		C04-F02B	from	F05-A07
Cells, fuel	L03-E04	Cell therapy	B14-S21	fillers	A08-R07
polymer use in	A12-E06+		C14-S21	paints	A12-B01D
solid oxide electrolyte	L03-E04A	Cells, polymer use in			G02-A02A
Cells, living	B04-B04A	electrochemical/electrolytic	A12-E09	polysaccharides	A03-A01+
	B04-F01	fuel including			B04-C02A
	C04-B04A	accumulators, batteries	A12-E06+		C04-C02A
	C04-F01	Cellulite treatment	D08-B15	polysaccharides, fibres,	
Amphibian	B04-F07B	Celluloid ®	A03-A03	textiles	A03-A01A
	C04-F07B	Cellulose and derivatives	A03-A+	Cement - (see also Adhesives)	L02
animal	B04-F01		B04-C02A	accelerator	L02-C08
	C04-F01		C04-C02A	additive	L02-C08
avian	B04-F07E	acetate	A03-A02+	alumina	L02-C07
	C04-F07E	acetate butyrate	A03-A02+	calcium sulphate	L02-C05
avian (transgenic)	B04-F07E0E		A03-A03	dental	A12-V02B
	C04-F07E0E	acetate fibres	A03-A02A		D08-A02
blood	B04-B04D1		F01-D01	gypsum	L02-C05
	B04-F04	acetate fibres, dyeing/		magnesium	L02-C04
	C04-B04D1	printing	F03-F04	mixers	L02-D02
	C04-F04	acetate propionate	A03-A02+	polymer coating on	A12-B08
cancer/carcinoma	B04-F02A		A03-A03	polymer use in	A12-R01A
	C04-F02A	butyrate	A03-A03	Portland	L02-C02
chimeric/fused	B04-F05A	detergent additive	D11-B10	Pozzuolanic	L02-C03
	C04-F05A	diacetate fibre	A03-A02A	production	L02-A01
culture	D05-H08		F01-D01	refractory	L02-E05
culture tests	B11-C08E1	ester fibres		retarder	L02-C08
	C11-C08E1	ester fibres, dyeing/printing	F03-F04	slag	L02-C03
division inhibitors	B12-G07	ester fibres, production	F01-D01	special	L02-C06
	B14-H01B	esters, excluding acetate	A03-A03	testing	L02-A08
	C12-G07	ethers	A03-A04+	waste product	L02-C03
	C14-H01B	ethers use	A03-A04A+	with Portland clinker	L02-C03
Eucaryotic	B04-F01		A12-S05N	Cementation coating	M13-D
	C04-F01	ethers preparation of	A03-A04B	Cemented carbide	L02-J01B
Fish	B04-F07D	fibres/fabrics dyeing/		Cementing	
	C04-F07D	printing	F03-F03	compositions	L02-D12A
hybridomas	B04-F05	nitrate	A03-A03		H01-C02B
	C04-F05	regenerated	A03-A05+	of or with polymers	A11-C01+
	D05-H15	regenerated, fibres,		of petroleum wells	A12-W10C
insect	B04-F07A	textiles	A03-A05A		H01-C02A
	C04-F07A		F01-D06	Centralizer	H01-B03C5
mammal	B04-F02	triacetate	A03-A02+	Centrally active (CNS)	B14-J01
	C04-F02	triacetate, fibres	A03-A02A		C14-J01
			F01-D01	Centrifugal	
monoclonal antibody		xanthate	A03-A05+	apparatus	J01-L
producing	B04-F05	xanthate, fibres, textiles	A03-A05A	casting of metal	M22-G03B
	C04-F05		F01-D06A	casting of plastics	A11-B04A
ova	B04-F03	Cellulose production,		separation: particles from	
	C04-F03	for paper	F05-A02+	gases	J01-G02
plant	B04-F08	bleaching of pulp	F05-A02B	separation: petroleum	
	C04-F08	pretreatment	F05-A02A	processes	H02-D03
protozoa	B04-F06	pulp, aftertreatment	F05-A02B	spinning of fibres	F01-C07
	C04-F06	pulping	F05-A02A	Centrifugation in tests	B11-C08D3
recombinant (unspecified)	D05-H14	recovery of pulping			C11-C08D3
Recombinant cell lines	D05-H14B	chemicals	F05-A02C	Centrifuges	J01-L01
recombinant microbial	D05-H14A	regenerating of pulp liquor	F05-A02C		
		use of residues	F05-A02C		

Centrifuging		Cereal	B04-A07D2	Charge transport materials, electrophotographic	
liquids	J01-F03		B04-A09F	inorganic	G06-F07+
sludge from waste water	D04-B10A		C04-A07D2	methine type	E25-B
sugars	D06-C		C04-A09F		E25-B01
Cephalins	B04-B01B	extracts	D03-R	organic	G06-F06
	C04-B01B		B04-A10G	Charged couple devices	L04-E05F
Cephalosporins	B02-C		C04-A10G	Charging, electrophotographic	G06-G07
	C02-C	preservation	D03-A05	Cheese	D03-B06
Ceramic		Cerebral active	B12-C10		D03-B06
nitrides	L02-H02B2		B14-J01	additive	D03-B04
Ceramic coatings on			C12-C10		D03-B04
glass sheet	L01-G04C		C14-J01	moulding	D03-B03
Ceramic composites	L02-J	Cerebroprotective	B14-J01		D03-B03
ceramic/ceramic	L02-J02C		C14-J01	packing and transporting	D03-B05
ceramic/fibre-reinforced		Cerebrospinal fluid	B04-B04H		D03-B05
metal	L02-J01D		C04-B04H	Cheese dyeing of fibres/ fabrics	F03-F29
ceramic/glass	L02-J02A	Ceric ammonium nitrate		Chelate resins (see also ion-exchange)	A12-M5
ceramic/metal	L02-J01	polymerisation catalyst	A02-A03		
ceramic/non-metal	L02-J02	Cerium catalysts	N03-A02A	Chelating agent	A08-A07
ceramic/plastic	L02-J02B	Cerium compounds	B05-A03B	in detergents	D11-B06
Ceramic contacts for			C05-A03B	to purify liquids	J01-D05
semiconductor devices	L04-C11A	inorganic	E34-E02A	Chemical analysis of polymers	A09-B
Ceramic-metal seal	L02-J01C	organic	E05-P	Chemical blowing agents for polymers	
Ceramics	L02	Cerium oxide	L02-G01C2	others	A08-B
carbide	L02-H02A	production	L02-G12D2	releasing carbon dioxide	A8-B02
casting	L02-A05	Cermets	L02-J01B	releasing nitrogen	A08-B03
cleaning	L02-A10	Cesium catalysts	N01-A	Chemical brightening of metal	M14-B
coating on metal	L02-J01E	Cesium compounds	B05-A01B	Chemical cleaning/ degreasing of metal	
coating with metal	L02-J01A		C05-A01B	apparatus	M12-A04
coating with polymer	A12-B08	inorganic	E33-H	cleaning/pickling	M12-A01
colours	L02-G04	organic	E05-A	solutions or salts	M12-A03
cutting	L02-A11		E05-A02	disposal/regeneration	M12-A02
decorating	L02-A07	Chafer fabric	F04-E01	inhibitors	M12-A05
drying	L02-A03	Chain (carbon) expansion/ contraction		processes	
extrusion	L02-A03		B11-C01	Chemical disinfection other than of food or air	D09-A01+
firing	L02-A04		C11-C01	Chemical engineering	A12-W11+
flame (plasma) spraying	L02-A06	catalyzed process	N07-F05		J+
glazing	L02-A07	chemical process	E11-B	(meth)acrylamide	
magnet	L03-B02B	oligomer-/telomerisation	E11-F01	(co)polymer, use in	A04-D04A2
melting	L02-A05	addition of CO(2)	E11-F02	PVC, use in	A04-E02E1
metal coatings, processes	M13-F03B	other chain extension	E11-F03	silicone polymer, use in	A06-A00E2
metallised	L02-J01A	contraction	E11-G02	Chemical etching of metal	
non-oxide	L02-H	Chain (polymer)		chemical processes	M14-A02
oxide	L02-G	couplers	A02-B	etching media, liquid or gaseous	M14-A03
polymer use in	A12-W12G	stoppers	A02-C	Chemical features in spinning of synthetic filaments	F01-D+
production	L02-A	transfer agents	A02-B	Chemical modification of	
raw material preparation	L02-B	Chain making	M21-L	drying oils	G02-B03
raw material preparation		Chairs	A12-D1	fats and oils	D10-B02
equipment	L02-A02	Chaperones/chaperonins	B04-N09	natural resin	G02-B01
shaping	L02-A03		C04-N09	polymers - (see also Modification)	A10-E+
slip casting	L02-A03	Charcoal	B05-C06	Chemical mowing	B12-P02
substrate for printed			E31-N+	Chemical plating of metal	M13-B
circuit	L03-H04E5	Charge carrier generators, electrophotographic			
surface treatment	L02-A12	inorganic	G06-F07+		
testing	L02-A08	organic	G06-F06		
welding	L02-A11	Charged particle counters	K08-A02		
		Charge transfer process, electrophotographic	G06-G08D		



Chemical preservation of corpses	D09-A01	Chlorine or derivatives - see Halogen or derivatives	using gas	M13-D03B
	D09-A03	Chloro - see also Halo, Monochloro and Polychloro	using solid	M13-D01B
Chemical processes (general)	B11-C01	Chloroalkylated/ chloroalkylation of polymers	Chromium	
	E11-K		alloys	M26-B13
Chemical removers for paint and ink	G02-A03C	Chloromethyl styrene	electrodeposition	M11-A01
Chemical sensitisers, photographic	G06-H01	(co)polymers	Chromium catalysts	N03-D
Chemical treatment of:		monomer		N03-D01
fabrics	F03-C+	Chloromethylated/ chloromethylation of polymers	for polymerisation	A02-A06+
natural fibrous material	F01-B+		Chromium compounds	B05-A03B
polymer surfaces	A11-C04D	Chloroprene	inorganic	E35-P
Chemical vapour deposition	M13-E	(co)polymer	organic	E05-L03
of ceramics	L02-A02B	monomer		E05-L03A
Chemical warfare agents, protection against	K02-A01	Chlorosulphonated polymers - see Halosulphonated polymers		E05-L03A
Chemiluminescence	G04-A	Chlorotrifluoro- ethylene	pigment/filler	G01-A07
Chemiluminescence tests	B11-C07B4	(co)polymers	pigments or fillers	G01-A07
Chemiluminescent tracer bound to antibody or antigen	B11-C07A5	monomer	Chromium oxide polymerisation catalyst	A02-A06A
Chemoprotectant	B14-M02A	Chlortetracycline	Chromium production	M25-G10
	C14-M02A	Chocolate	Chromogenic compounds for heat sensitive systems	G06-F08A
Chemotherapy	B14-S25	Chocolate Candy	Chromophorotropic hormone	B04-B02D4
	C14-S25	chewy candy	Chromosomal abnormality disorder	B14-S20A
Chess games	A12-F01	hard candy		C14-S20A
Chewable formulation	B12-M11R	Cholagogue active	Chrysanthemum acid (or derivatives)	B04-A07C
	C12-M11R	Cholecystokinin (CCK-PZ)	Chrysene	B08-C01
Chewing gum	A12-W09	Cholecystopathy treatment		E08-C01
	B12-M11	Cholera treatment	Chymotrypsin	B04-B02C3
	D03-E+	Choleretic		B04-L05C
	D03-E09	Cholestane		C04-L05C
Chewy candy	D03-E10B	Cholesteric/ cholesterylic (liquid crystal property of polymer)	Cicatrizant	B12-A07
chocolate	D03-E10B1		Cigarettes	
Chicken meat	D02-A03B	Cholesterol	filters for	A12-H04
Chill casting of metal	M22-G03C			D07-D
using moulds or cores with				F04-E05
high thermal conductivities	M22-G03C1	reduction of blood levels	tobacco substitutes in	A12-W
Chinese herbal medicine	B04-A10	Cholinergic	Cinchona alkaloid	B04-A02
	C04-A10		Cine sound tracks	G06-D
Chipboard	F05-A07		Cinerin	B04-A07C
coating on	A12-B09	Chondroitin	Cinnamic acid	E10-C04C
polymer use in	A12-A04B		(co)polymers	A04-C
production of	A03-A+		monomer	A01-D02
	A11-B09B	Chopped meat	Cinnoline	B06-D06
Chitin	B04-C02E3	Chopping up waste for fermentation		E06-D06
	B04-C02E3	Chorionic gonadotropin	Circuit components (electrical), polymer use	A12-E07+
	C04-C02E3	Chromate coating of metal	Circuitry, basic electronic	L03-H02
Chitosan	A10-E09	Chromatography	Circuits	
	B04-C02E3	GC-MS	(electro)photographic	
Chlor-alkali cells	A12-E09	in gas phase	production of	G06-D06A
	J03-B04	in liquid phase	integrated	A12-E07C
Chloramphenicol	B02-C01		printed	A12-E07A
Chlorella	B04-F08	tepolymer application		L03-H04E+
	C04-F08	thin layer	printed, ceramic substrate	
Chlorinated polyethylene	A10-E04A	Chromatography tests	for	L03-H04E5
Chlorinated/ chlorination of polymers	A10-E04A		printed, electroplating of	L03-H04E3
Chlorine catalysts	N04-D+	Chromising	printed, plastics substrate	
			for	L03-H04E1

printed, reprographic methods of	L03-H04E2	Cleaning polymerisation apparatus	A10-G	Coagulants for :	
printed, thick film	L03-H04E4	Cleaning printing plates	G05-F	blood	B12-H04
Circulatory active general and other	B14-F02	Cleaning solutions/salt mixtures for metals	M12-A01	pollution control	A12-W11E
	C14-F02	disposal/regeneration inhibitors	M12-A03	sewage	D04-A01B
Circulatory diseases		Cloches	M12-A02		D04-B09
diagnosis	B12-K04A2	Clocks	A12-W04A	Coagulants, polymer use	
treatment	B12-E01	Closures for	A12-W	acrylic	A12-M01
Cirrhosis treatment	B12-E08	containers	A12-P03	others	A12-M02
	B12-G08		B11-C06A	Coagulation of liquids	J01-D03
Cisterns	A12-R02	packages	A12-P03	Coagulative spinning	F01-C04
Citrates plasticisers/extenders	A08-P06	Cloth, polymer coatings on	A12-B02+	Coal additives	H09-H03
Citric acid	B10-C02	Clothes making	F04-F01	Coal dust	
	E10-C02A	Clothing	A12-C+	coatings on	A12-B09
Civil engineering	A12-R+		F04-C+	laying compositions	G04-B
polyethylene, use in	A04-G02E4	colour care	D11-D07C1	Coal hydrogenation, liquefaction	H09-A01+
PVC, use in	A04-E02E1	fabric softener/ detergent	D11-D07C2	Coal removal from water	D04-B03
road compositions	A12-R09	fasteners	A12-C03	Coal slurries	
unsaturated polyester, use in	A05-D02E1		F04-C04	coal slurries	A12-T03A
CJD treatment	B14-N16B	foam backed	A12-C01		H09-G+
	C14-N16B	footwear	A12-C04	Coal tar plasticisers	A08-P08
Cladding of or with metal	M13-H01		F04-C05	Coal, briquettes and briquetting	H09-F
Clamps	A12-H12	protective	D09-C04D	Coating aids, photographic	G06-H18
Clavulanic acid and derivatives	B02-C01	protective, against radiation	K07-A	Coating ceramic	
	B06-E03	safety	A12-C02	on metal	L02-J01D
Clay		sports	A12-F01	with metal	L02-J01A
expanded, preparation of	L02-B05	Clotting factors	B04-B04D3	Coating compositions - see also Paints	
detergent use	D11-B11	Cloud point depressants (fuels)	H06-D05	as primers	G02-A05E
	D11-B11A	Cloxacillin	B02-P03	containing polymer (general)	A12-B+
heavy, products	L02-G02	Clubs (sports equipment)	A12-F01B	containing polymer (general), solvent based	A12-B01B
non-expanded, preparation of	L02-B06	Clusters	F01-E09A	containing polymer (general), water-based (emulsion)	A12-B01A
Clay bound to enzyme	D05-A01A5	Clutch material	A12-H10	corrosion resistant for	
Clay fillers	A08-R06B	CMC	A03-A04+	metals	G02-A05E
	G01-A10	use	B04-C02A2	fireproof	A12-B08
Cleaning apparatus for semiconductor devices	L04-C09C	use - food, medical, cosmetic	A03-A04A1		G02-A05D
Cleaning compositions (see also Detergents)	A12-W12+	CNS		for concrete	G02-A05F
	G04-B08	disorder diagnosis	B12-K04A5	for electrical material	
for semiconductor manufacture	L04-C09A	sedatives	B12-C08	other than wires	G02-A05B
Cleaning electrophotographic materials	G06G08E	CNS active		for magnetic material	G02-A05B
Cleaning heat exchangers	J08-E+	depressants general	B12-C05	for masonry	A12-B03+
appliances	J08-E01		B14-J01B		G02-A05F
details	J08-E03		C12-C05	for paper	G02-A05C
processes	J08-E02	general	C14-J01B	for road paints	G02-A05F
Cleaning metals	M12-A+		B14-J01	for traffic sign paints	G02-A05F
apparatus for	M12-A04	stimulants general	B12-C06	for walls	A12-E02+
electrolytic	M11-H01		B14-J01A		G02-A05F
with solution or molten salt	M12-A+		C12-C06	for wires	G02-A05A
Cleaning of polymer handling/processing plant	A11-C		C14-J01A	non-stick	G02-A05D
Cleaning of semiconductor devices	L04-C09B	Co-ordination complex catalysts not CO, not pi	N05-C	release coatings	G02-A05D
Cleaning of semiconductor apparatus	L04-D11	Coagulants	B12-H04	Coating concrete	L02-D14+
Cleaning of teeth or mouth	D08-B08		B14-F08	Coating fabrics	F03-E01
			C12-H04	Coating from a liquid metal bath	M13-A
			C14-F08	Coating from a solution or suspension of metal compound	M13-B

Coating glass	L01-G04+	with condensants		polyethylene	A04-G02E1
bottles	L01-G04A	(followed by polymerisation)	A11-B05C	polyurethane	A05-G01E1
sheet with inorganic		with dispersions	A11-B05D	PVA	A10-E09B1
materials	L01-G04C	with foams	A11-B05E	PVC	A04-E02E2
tableware	L01-G04E	with melts	A11-B05E	saturated polyesters	A05-E01D1
Coating of metal (processes)		with monomers (followed		silicone resins	A06-A00E1
by :		by polymerisation)	A11-B05C	Coats (apparel) of fabric	A12-C
cladding	M13-H01	with pastes	A11-B05D		F04-C03
diffusion using gases	M13-D03	with powders	A11-B05E	Cobalamin and derivatives	B03-E
diffusion using liquids	M13-D02	with solutions	A11-B05D		C03-E
diffusion using solids	M13-D01	Coating with crosslinking	A11-C02C	Cobalt based alloys	M26-B08
electrophoresis (general)	M11-G	Coating with metal by :		magnetic	L03-B02A4
electrostatic method	M13-H06	cladding	M13-H01	Cobalt catalysts	N02-B
gas decomposition/reduction	M13-E+	diffusion	M13-D+	element	N02-B01
gas decomposition/		electrostatic method	M13-H06	oxide	N02-B01
reduction to form		non-electrolytic method		Cobalt compounds	B05-A03B
inorganic coating	M13-E02	(general)	M13-H+		C05-A03B
gas decomposition/		non-electrolytic method -		inorganic	E35-V
reduction to form		control and testing	M13-L	inorganic pigment	G01-A13
metallic coating	M13-E01	sintering	M13-H02	organic	E05-L02
non-electrolytic method		spraying	M13-C		E05-L02B
(general)	M13-H+	using adhesive	M13-H03	Cobalt electrodeposition	M11-A02
non-electrolytic method -		Coatings		Cobalt naphthenate accelerator	
control and testing	M13-L	antifouling	G02-A05G	for ethylenically	
sintering	M13-H02	anti-graffiti	G02-A05J	unsaturated polymers	A08-C03
spraying	M13-C	corrosion resistant	G02-A05E	for other polymers	A08-D05
to form organic coating	M13-E03	fire proof	G02-A05D	Cobalt production	M25-G11
using adhesives	M13-H03	for concrete	G02-A05F	Cocaine	B04-A01
vapour deposition	M13-F	for glass (excluding glass			C04-A01
Coating of metal by:		fiber)	G02-A05F	Coccidiostat	B12-B05
post-treatment	M13-D04	for magnetic recording			B14-A03C
Coating of metal with :		material	G02-A05B1		C12-B05
ceramic	L02-J01D	for optical fiber	G02-A05H		C14-A03C
chromate layer	M14-D03	for paper	G02-A05C	Cocoa	D03-E
non-metallic layer (by		for wire	G05-A05A	Cocondensation	A10-D+
surface reaction - general)	M14-D+	general addition polymer		Cocoon handling to obtain	
non-metallic layer		based	A12-B01W	silk, mechanical	F01-A01
(electrically)	M11-F	general condensation		Cod liver oil	B04-B01C2
oxide layer	M14-D01	polymer based	A12-B01X		C04-B01C2
phosphate layer	M14-D02	non-stick	G02-A05D	Codeine	B04-A04
plastics	A12-B04+	release	G02-A05D		C04-A04
plastics, non-electrically	M13-H05	Coatings and impregnations		Coenzyme inhibitors	B14-D04
refractory coating (non-		(polymer use)	A12-B+		C14-D04
electrically)	M13-H04	Coatings of polymers	A12-B+	FAD	B14-D04
Coating optical glass		Coatings,			C14-D04
components	L01-G04D	friction and oil-free	M13-K	NAD	B14-D04
fibres	L01-F03A1	lubricants		NADH	C14-D04
Coating polymer surface with		wear resistant	M13-M02		C14-D04
metals (by metallisation)	A11-C04B1	Coatings, sprayable refractory	L02-E05	Coenzymes	B04-B02C1
non-metals	A11-C04B2	Coatings, use of following			B04-L02
polymers	A11-B05+	polymers in			C04-B02C1
Coating processes,		(meth)acrylamide			C04-L02
photographic	G06-E04	(co)polymer	A04-D04A1	by fermentation	D05-C03A
Coating processes,		(meth)acrylate (co)polymer	A04-F06E7	Coextrusion	A11-B07+
with polymer :	A11-B05+	(meth)acrylic acid		laminating of films	A11-B07A
by dipping	A11-B05A	(co)polymer	A04-F04B		
by extrusion	A11-B05B2	(meth)acrylic anhydride			
by flocking	A11-B05B	(co)polymer	A04-F04B		
by spraying	A11-B05B1	epoxy resins	A05-A01E4		
involving electrodeposition	A11-B05A	phenol-formaldehyde resin	A05-C03A		
involving fluidised beds	A11-B05A	phenolic resins	A05-C01B1		

	A12-S06C+		C04-N02	stabilisation	G06-G13
Coffee	D03-D01	Collagenase	B04-B02C3	Coloured layers on metals (chemically)	M14-C
bags	D03-D01A		B04-L05C	Colouring glass surfaces	L01-G05
bean treatment	D03-D01		C04-B02C3	Colouring of polymers	AT1-A01
	D03-J02		C04-L05C	Colouring oxides for glass compositions	L01-A03B
substitutes	D03-D03	Collapsible containers	A12-P06C	Colouring, processes	AT1-A01B
Coffins	A12-W	Colloid	B12-M07	Colouring, using specific compositions	AT1-A01A
Cognitive enhancer	B14-J01A4		C12-M07	Colours, ceramic	L02-G04
	C14-J01A4	chemistry	J04-A03	Columbium - see Niobium	
Coils		protective (polymer additive)	A08-S06	Coma treatment	B12-D10
electrical	A12-E08B	transfer material for photosensitive systems	G06-C11		B14-J01A2
	L03-B02F	Colloxylin	A03-A03		C12-D10
magnetic	A12-E08B	Colon disease treatment	B14-E10C		C14-J01A2
of fibres	F01-H03D		C14-E10C	Combing, yarn processes	F01-F01
Coining (powder metallurgy)	M22-H03E	Colony stimulating factors		Combinatorial process	B11-C01A
Coke (petroleum)	H08-E02	G-CFS	B04-H04A		CT1-C01A
Coke ovens	H09-A02		C04-H04A		E11-K01
	M24-A01B	general and other	B04-H04	library synthesis	B11-C01A1
Coke, coking (coal)	H09-A		C04-H04		CT1-C01A1
Coking process (petroleum feedstock)	H04-B01	GM-CFS	B04-H04C	Liquid phase synthesis	B11-C01A2
Cold (common) treatment		M-CSF	C04-H04C		CT1-C01A2
adrenergic	B12-E07		B04-H04B	Solid phase synthesis	B11-C01A3
	C12-E07	MEG-CSF	C04-H04B		CT1-C01A3
analgesic	B12-D01		B04-H04D	Parallel synthesis	B11-C01A4
	C12-D01	Colophony	C04-H04D		CT1-C01A4
antifebrile	B12-D08	Colorant	A03-C02	High volume synthesis	B11-C01A5
	C12-D08	for food (natural)	D03-H01E1		CT1-C01A5
antiviral	B12-A06	for food (synthetic)	D03-H01E2	Combinatorial apparatus	B11-C01B
	C12-A06	Colorimetric tests	B11-C07B1		CT1-C01B
bronchodilator	B12-K02		CT1-C07B1		E11-K02
	C12-K02	Colour additive system for photography	G06-C13	Comminuting waste for fermentation	D05-A04B
expectorant	B12-K05	Colour bleaching (photographic)	G06-G11	Comminution of polymers	AT1-A04
	C12-K05	Colour care	D11-D07C1	Communications (use of electro(in)organic material)	L03-H03
unspecified mode of action	B14-A02B3	Colour coupler	E26	Commutators	L03-B04C
	C14-A02B3	photographic	G06-H08	Compact discs	A12-L03C
Cold exchangers	J07-D03	photosensitive system		Complement factor	B04-H01
Cold forming of polymers	A11-B08	containing	G06-C01	Complement inhibitor	B12-D02C
Cold working of		Colour formers for heat sensitive systems	G06-F08A		B14-G02
cast iron alloys	M27-B03	Colour materials for photosensitive system			C12-D02C
ferrous metal	M24-D01B	containing coupler	G06-C01	Complex catalyst	C14-G02
iron alloys	M27-B	dye destruction	G06-C03	carbon monoxide	
non-ferrous metal or alloys	M29-B	electrophotographic	G06-C04	containing	N05-B
steel alloys	M27-B04	Kodachrome® type	G06-C02	carbonyl containing	N05-B
Colistin	B02-C	Colour proofing (printing)	G05-C	other co-ordination	N05-C
	C02-C	Colour receptiveness of polymers		pi-bonded	N05-B
Colitis treatment	B12-E08	additives to improve inherent property	A08-M01A	Ziegler(-Natta) catalysts	A02-A06+
	B12-G02	Colour tracer bound to antibody or antigen	A09-A06	Complex quaternary and ternary AIII-BV compounds	L04-A02D
	B14-E10C			Complexing agents	
	C12-E08	Colour, photographic development	G06-G10	adding to water	D04-A03
	C12-G02	fixing	G06-G12	additive for polymers	A08-A07
	C14-E10C			in detergents	D11-B06
Collagen	A03-C01			to purify liquids	J01-D05
	B04-B04A6			Complexing with organic reagents, non-ferrous metal extraction	M25-B04
	B04-N02				
	C04-B04A6				

Composite inorganic pigment	G01-C	water reducing	L02-D14D	tolerance to plants	C14-U05
Composite materials (powder metallurgy)	M22-H03F	Concrete manufacture		Conifers	B04-A08C1
Composite rolls for rolling mills, manufacture of	M21-A02A	decorative coating	L02-D14P		C04-A08C1
Composite-reinforced materials containing fibres	F03-D+	polymeric coating	A12-B08	Conjugate fibres	A12-S05B
Compost	B04-A07D		L02-D14M		F01-E01+
	B04-A09	Condensant (for polymer)	A01-E+	crimped	F01-E01A
	C04-A07D	Condensant, polymerising		Conjugated aliphatic di-olefinic monomers	
	C04-A09	coating process with	A11-B05C	substituted	A01-C04
Compounding polymers	A11-A03+	Condensation of vapour	J01-A03	unsubstituted	A01-C05
Compression moulding	A11-B11	Condensation polymerisation	A10-D+	Connectors, (for pipes)	A12-H02C
Compression type refrigeration	J07-A01	Condensation polymers only blends/mixtures	A07-A03+	Conserve	D03-H01V
Computational genomics	B11-C08F1	Condensation polymers stabilisers	A08-A01B	Conserving foodstuffs with sugar	D03-H02D
	C11-C08F1	Condensation resin coatings on metal	A12-B04C	Consolidation of incompetent formation	H01-C09
Computational proteomics	B11-C08F3	Condensers for vapour or steam	J08-A	Consolidation, earth	A12-A02
	C11-C08F3	Condensers, electrical	A12-E07B	Constipation treatment	B12-J07
Computer ribbons, fabric	F02-E02		L03-B03		B14-E09
Computerisation in polymer processing	A09-D+	Conditioners for fabrics	D11-B15		C12-J07
Computers (use of electro (in)organic material)	L03-H03A		F03-C05		C14-E09
Computing methods	B11-C11	Conditioning fibres, yarns with heat	F01-H05	Construction industry	A12-R+
	C11-C11	Conditioning polymer	A11-B02+	Construction material, polymer foam use in	A12-S04B
Concentration of		Condoms	A12-V03B	Contact adhesives	A12-A+
ferrous ores	M24-A01		B12-K03		G03-B+
food	D03-K09		C12-K03	Contact breakers	L03-B04B
non-ferrous ores	M25-A01	male	C14-P01A	Contact igniters, chemical	K04-B02
non-ferrous ores, dry methods	M25-A01A	Conductive (electrical), additives for polymers	A08-M09A	Contact lens cleaners	D11-C01
non-ferrous ores, wet methods	M25-A01B	Conductive alloy compositions	L03-A01A5		D11-D01C
polymers	A10-G01+	Conductive coatings on windows	L01-H02	Contact lenses	A12-V02A
Concrete	L02-D	Conductive films for LCD	L03-G05B9		D09-C01A
autoclaves	L02-D04	Conductive layers manufacture in semiconductor manufacture	L04-C10	Contacts, electrical	L03-A01
binders (special)	L02-D07	Conductive nanomaterials	L03-A02G	alloy	
coating compositions for	G02-A05F	Conductive pastes, inks	L03-A01A3	alloy, other	L03-A01A2
coatings	L02-D14	printed circuits	L03-H04E4	alloy, silver	L03-A01A1
coatings, polymeric	A12-B08	Conductive polymer (electrical)	A09-A03	for semiconductors	L04-C11
decorating	L02-A07		L03-A02D	sliding	L03-A01A4
fillers (special)	L02-D06	Conductivity monitoring	J04-C02B	Containers	
glazing	L02-A07	Conductors, electrical	L03-A	foam use in	A12-S04C
gypsum products	L02-D07A	metallic	L03-A01	for bakery or dough	
heavy	L02-D02	metallic, insulated	L03-A01B	product	D01-A04
light	L02-D03	metallic, non-insulated	L03-A01A	for pharmaceutical and	
polymers in	A12-R01A	non-metallic	L03-A02	agricultural compositions	B11-C06
prefabricated	L02-D04	non-metallic, non-insulated	L03-A02A		C11-C06
prestressed and reinforced	L02-D05	Confectionery	D03-E	general, polymer use in	A12-P01B
production equipment	L02-D02	coating	D03-E02	glass, filling of	L01-J03
resin	L02-D07B	cooking and mixing		polymer use in	A12-P+
testing	L02-D08	ingredients	D03-E05	Continuous casting	M22-G03A
Concrete additives	L02-D14	dispensers	D03-E06	cooling	M22-G03A3
fabric for reinforcing	F03-D04	packing	D03-E04	moulds	M22-G03A1
frost resistance	L02-D14C	shaping	D03-E03	withdrawal equipment	M22-G03A2
plasticising and fluidising	L02-D14E	transporting	D03-E01	Contraceptives	B12-K03
polymeric	A12-R01A	Conferring herbicide resistance to plants	C14-U03		B14-P01
	L02-D14F	Conferring pest resistance to plants	C14-U04	condoms, IUD, sheaths etc.	A12-V03B
set accelerators/ retarders	L02-D14A	Conferring stress		creams, pills etc.	A12-V01
strengthening	L02-D14B			female	B14-P01B
water permeability retarding	L02-D14Q				C14-P01B

male	B14-P01A C14-P01A	Copals	A03-C02	Corona discharging polymer surfaces	A11-C04E
Control devices for		Copolymerisation	A10-B+	Coronary dilators	B12-F02
polymer processing		block	A10-C+		B14-F01E
equipment	A09-D+	general	A10-B01		C12-F02
gas or liquid storage	J08-B08	graft	A10-C03+		C14-F01E
sewing machines	F02-F01B1	ordered	A10-C+	Coronary thrombosis treatment	B12-H02
Control gear engineering		Copper			B14-F04
nuclear applications	K09-L	alloy conductive tracks			C12-H02
Control of neutron flux in		on semiconductors	L04-C10D		C14-F04
reactors	K05-B06A	alloys	M26-B03	Corpse preservation	
Control of nuclear reactors	K05-B06	electrodeposition	M11-A03	chemical	D09-A01
Control rods (nuclear reactor)	K05-B06A	removal from waste water	D04-B05		D09-A03
Control, heat treatment			D04-B05B	physical	D09-A02
(ferrous)	M24-D07	Copper catalysts	N02-D	Corrin dyes (general)	E23
Controlled fusion reactors	K05-A03	element	N02-D01	Corrosion control and testing	M14-J
Controlled release	B12-M10	oxide	N02-D01	Corrosion control in	
	C12-M10	sulphide	N02-D01	petroleum refineries	H05-X
	A12-W15	Copper compounds	B05-A03A3	Corrosion inhibitors	M14-F
Controlling insects	D09-B06		C05-A03A3	as lubricant additives	H07-G02
Conventional weaving	F02-A04A	inorganic	E35-A	coatings	G02-A05E
Conversion coating of metal	M14-D	inorganic pigment	G01-A13	fuel additives	H06-D02
chromating	M14-D03	organic	E05-L03	inorganic	M14-F02
oxide coating	M14-D01		E05-L03B	organic	M14-F01
phosphating	M14-D02	Copper compounds as		Corrosion prevention	
Conversion of chemical		antiseptic, fungicidal or		in heat exchangers	J08-D02
element	K08-B	animal repellent in polymers	A08-M02	in metallurgy	M14-K
Conversion of polymer into		Copper production	M25-G08	in water systems	D04-A03
small particles	A11-A04	Cops for fibres	F01-H03A	with polymers	A12-W11J
Conversion screens for X-ray		Copying material		Corrosion resistant coatings	
material	G06-A09	non-radiation sensitive	G05-E	for metals	G02-A05E
Converter processing of fibres	F01-G03	pressure sensitive	A12-D05A		M14-K
Converter, steel processing	M24-B02C		G05-D	Corrugated cardboard	
Conveying of polymer articles	A11-C06	Cords	F04-A	(structure)	F05-A06A
Conveyor belts	A12-H01	in packaging	A12-P07	Corrugating	
	F04-E07	in tyres	A12-T01C	cardboard	F05-A04D
Convulsants	B12-D10		F04-E01	paper	F05-A04D
	B14-J06	Cords, tyre	A08-R+	polymers	A11-B08+
	C12-D10		F04-E01	sheet metal	M21-E01
	C14-J06	polymeric	A12-T01C	Corticoidal	B12-G04
Cookies	D01-B02C	Core binding	A12-A02		B14-D01
Cooking food	D03-K01	Core boxes for patterns	M22-C02		C12-G04
Cooking utensils	A12-D03	Core compositions	M22-A01		C14-D01
Coolants	A12-W11G	Core making	M22-E	Corticosteroid receptors	B04-K01L3
	G04-B01	Core material, refractory	L02-E06		C04-K01L3
Coolants for nuclear reactors	K05-B03	Core moulds	A12-A02	Corticosteroidal	B14-D01
liquid metal	K05-B03A	Core production and design	M22-D		C14-D01
Coolers, trickle	J08-B01	Core, sheath manufacture		Corticotropic hormones	B04-B02D4
Cooling		for optical glass fibres	L01-F03F1		B04-J05
apparatus	J07-C	Core-sheath			C04-B02D4
apparatus, iron and steel		fibres	A12-S05B		C04-J05
production	M24-A05B		F01-E01+	Corticotropin-releasing	
furnace charge	J09-B03	yarns	F01-E	hormone	B04-J06
hot blast	M24-A05E1	Cores, chill casting	M22-G03C1		C04-J06
in polymer processing	A11-A02C	Cores, foundry	A12-A02	Cortisols	B01-C02
spun fibres	F01-C	Cores, magnetic	L03-B06		C01-C02
towers	A12-W11G	Cores, other than for foundry		Cortisones	B01-C01
Coordination catalysts for		casting	M22-G03G3		C01-C01
polymerisation	A02-A06+	Coring (oil and gas wells)	H01-B05B		
Cop dyeing	F03-F29	Coring fruit	D03-J06		
Cop handling in winding of					
fibres	F01-H03C				

Cosmetics	A12-V04+ B12-L02 B14-R01 C12-L02 C14-R01 D08-B	Covering power increasing agents (photographic)	G06-H04	agents for other polymers	A08-D+
		Crackers (bakery products)	D01-B02C	agents with epoxy resin	A05-A01B1
		Cracking catalysts	H04-F02B	anti-scorch agents	A08-C06 A08-D+
		Cracking process products, monomeric	A01-B04	processes, general retarders	A11-C02+ A08-C06 A08-D+
Cosmetics, polymers used in		Cracking processes	A10-E05+ B11-C01 C11-C01 E11-G02 H04-B	rubber vulcanisation with coating and/or extrusion	A11-C02A A11-C02C A11-C02B
(meth)acrylate (co)polymer	A04-F06E5	Cramp treatment	B12-E02 B14-J05A C12-E02 C14-J05A	with irradiation with moulding and/or foaming	A11-C02D
cellulose ether	A03-A04A1			Crotonates (co)polymers	A04-F07 A01-D10
polyamides	A05-F01E3	Crash pads in vehicles	A12-T04B	Crotonic acid (co)polymers	E10-C04 A04-F05 A01-D08
polyethylene	A04-G02E3	Crates	A12-P06B	monomer	A12-V02B
polypropylene	A04-G03E1	Crayons	A12-D05B G02-A04+	Crowns, dental	D08-A03 M24-B02A
PVA	A10-E09B2	Cream	D03-B13	Crucible steel processing	
silicones	A06-A00E3	Cream (milk)	D03-B	Crucibles for glass manufacture	L01-C05
Cosmic radiation utilisation	K08-C	Creams (formulation)	B12-M02 C12-M02 D08-B09	Crude oil	
Cosmids	B04-E08 C04-E08	Crease proofing of fabrics non-resinous	A12-S05R F03-C04	drilling for exploration for production techniques	H01-B H01-A H01-D H01-B03 H01-B02 H01-E03 H01-X01
Cosmonautics	A12-T03+	resinous	A12-G02 F03-C04	Crushing	J02-B J02-B03 J02-B01 J02-B02
Cot death	B14-S10	Credit cards with magnetic recording strips	A12-D L03-B05H	Crustaceans	B04-P01C C04-P01C
Cotton	A03-A05A	Crepe fabrics	F02-G02	Crusticide	B14-B04 C14-B04
Cotton dyeing/printing solvent dyeing	F03-F03 F03-F13A	Cresol-formaldehyde resins	A05-C03+ E10-E02B E10-E02B1 E10-E02E E10-E02E1	Crystal forms	B12-M11H2 C12-M11H2
Cotton fibre filler for polymer	A08-R07	Cresols		Crystallisable glass	
Cotton seed oil	B04-B01C1 C04-B01C1			applications	L01-K03
Cough treatment	B12-K01 B14-K01B C12-K01 C14-K01B L03-G03	Creutzfeld-Jakob disease treatment	B14-N16B C14-N16B	composition manufacture	L01-A08 L01-K02
Coulometers		Cricket balls, bats pitches	A12-F01B A12-F01A	Crystallisation	A11-B02+ B11-B C11-B E11-Q J01-B
Coumarin photographic brighteners	G06-H09C	Crimped fibres	A12-S05C F01-E04 F01-E01A A11-B02D F01-H04+ F01-H04C2	Crystallisation, water treatment by	D04-A01C
Coumarone (co)polymers	E06-A01 A04-C	conjugated		Crystals, liquid	A12-L03B G04-B
monomer	A01-D02	Crimping of fibres		Crystals, single semiconductors	J04-A04 L04-B
Coumarone-indene resins	A04-C	jet		Culture apparatus (micro-biological)	D05-H02
Counter for neutrons	K08-A01	Crockery	A12-D03	Culture, cell or tissue	D05-H08
for neutrons	K08-A02	Cross rolling of metal	M21-H		
for charged particles	K08-A02	Crosslinking			
for gamma and cosmic rays	K08-A03	accelerators	A08-C03 A08-D+ A08-C02 A08-D+		
for X-rays	K08-A04	activators			
Coupler containing colour photosensitive systems	G06-C01	agents for addition or ethylencally unsaturated polymers	A08-C+		
Couplers for heat sensitive systems	G06-F08A				
Couplers, for					
azo dyes	E26-A				
dyes (general)	E26				
oxidation dyes	E26-A				
Couplers, photographic	G06-H08+				
keto-methylene based	G06-H08C				
naphtholic based	G06-H08A				
phenolic based	G06-H08A				
pyrazolone based	G06-H08B				
pyrazolotriazole based	G06-H08D				
Coupling agents					
for polymer additives	A08-M01+				
for polymer chains	A02-B				
Couplings, pipe	A12-H02C				
Courts, sports	A12-F01A				



Culture, media	D05-H01	polymers, tubes and tyres	A11-A05A	Cyclic ethers	
agricultural	A12-W04B	rocks	L02-A	(co)polymers	A05-H+
	C12-N08	sliver to staple	F01-F	condensants excluding	
microbiological	D05-H01	threads in sewing	F02-F01B2	epoxides	A01-E08
Culture, media		Cutting oils, emulsions	H08-D04	epoxides condensants	A01-E07
agricultural	C14-T01	Cutting tools		Cyclic peptides	B04-C01H
Culturing bacteria	A12-W11L	ceramic oxide	L02-G08		C04-C01H
	B11-A	cermet	L02-J01B	Cyclic siloxanes condensants/ monomers	A01-A03
	C11-A	Cutting, electric	M23-D	Cyclic thioethers	
	D05-A	arc	M23-D01	(co)polymers	A05-J05
	D05-H	electron beam	M23-D04	condensants	A01-E08
Cumyl peroxide		electroslag welding	M23-D07	Cyclisation (process)	B11-C01
crosslinker for addition and ethylenically		induction heating	M23-D03		C11-C01
unsaturated polymers	A08-C05	laser beam	M23-D05	catalyzed process	N07-F07
crosslinker for other polymers	A08-D	plasma arc	M23-D01	chemical process	E11-A01
polymerisation catalyst	A02-A01	resistance welding	M23-D02	reaction apparatus	E11-A01
redox polymerisation		spark erosion	M23-D06	of polymer	A10-E14
catalyst	A02-A03	Cutting, flame	M23-C	Cyclised polymer	A10-E14
Cuprammonium rayon	A03-A05+	Cyanamides, inorganic	B05-C03	Cycloaliphatic - see also Alicyclic	
	F01-D06B		C05-C03	Cycloaliphatic dicarboxylic acid(s)	
Cupric, cuprous - see Copper		Cyanates inorganic	E32-B	production	E10-C02C1A
Cups	A12-D03	removal from water	D04-B07A	use	E10-C02C2A
Curds and whey separation	D03-B02	Cyanates organic	B10-A14	Cycloaliphatic epoxy resins	A05-A05
Curds production in milk	D03-B01		C10-A14	Cycloaliphatic hydrocarbons	
Cure retarders for polymers	A08-C06		E10-A14	diolefinic	E10-J02A
	A08-D+		E10-A14A		E10-J02A1
			E10-A14B		E10-J02A2
Curing agents - see Crosslinking		Cyanides inorganic		(co)polymers	A04-B
Curing of concrete articles	L02-D04	removal from water	D04-B07A	monomer	A01-C05
Curing of polymers	A11-C02+	Cyanides, inorganic	B05-C03	Cycloaliphatic hydrocarbons	
Curium compounds	B05-A04		C05-C03	monoolefinic	E10-J02A
	C05-A04		E32-B		E10-J02A1
inorganic	E35-R	Cyanides, organic	B10-A15		E10-J02A2
organic	E05-Q		C10-A15	(co)polymers	A04-G
Curling of fibres and yarns	F01-H04+		E10-A15	monomer	A01-D13
Curtain rails	A12-R02A	Cyanine spectral sensitisers		Cycloaliphatic polyepoxides	A05-A05
Curtains	A12-D01	photographic	G06-H07A	Cycloalkane	B10-J02
	F04-D03	Cyanoacrolein	E10-A15		C10-J02
Cutlery	A12-D03	Cyanoacrylamide	E10-A15		E10-J02A
Cutting		Cyanoacrylates	E10-A15		E10-J02A1
bakery products after		(co)polymers	A04-D		E10-J02A2
cooking	D01-A06	monomer	A01-D04	Cycloalkene	B10-J02
ceramics	L02-A		A01-D10		C10-J02
fabrics	F03-K03	Cyanoacrylic acid	E10-A15		E10-J02A
fabrics for clothing	F04-F01	(co)polymers	A04-D		E10-J02A1
food	D03-K05	monomer	A01-D04		E10-J02A2
glass			A01-D08	(co)polymers	A04-G
glass fibre, optical	L01-F03H	Cyanoacrylonitrile	E10-A15	monomer	A01-D13
glass, flat	L01-G07	(co)polymers	A04-D	Cycloalkyne	B10-J01
glass, non-flat	L01-G08	monomer	A01-D04		C10-J01
plastics	A11-A05+	Cyanogen	B05-C03		E10-J01
polymers	A11-A05+		C05-C03	(co)polymers	A04-A02
polymers, films, fabrics	A11-A05C		E32-B	monomer	A01-B02
polymers, for scrap recovery	A11-C03A	Cyanurate, triallyl	E07-D13	Cyclodextrin	A03-A
polymers, into granules	A11-A04	(co)polymers	A04-A03		B04-C02B1
polymers, recesses, grooves	A11-A05B	monomer	A01-B03		C04-C02B1
		Cyanuric acid	E07-D13		D06-H02
				Cyclohexane dimethanol condensant	E10-E04J1
					A01-E14



Cyclohexanone peroxide crosslinker for other polymers	A08-D
crosslinker for unsaturated /addition polymers	A08-C05
polymerisation catalyst	A02-A01
redox polymerisation catalyst	A02-A03
Cycloheximide	B02-C01
	C02-C01
1,4-Cyclohexyl dimethanol condensant	E10-E04J1
	A01-E14
Cyclohexyl methacrylate (co)polymers	E10-G02
monomer	A04-F06+
	A01-D10B
Cyclone	J01-L02
Cyclopentadiene	E10-J02A
	E10-J02A1
	E10-J02A2
(co)polymers	A04-B
monomer	A01-C05
Cyclosporin	B02-C01
Cylinders, glass, formation of	L01-F02
Cystic fibrosis	B14-K01
Cystitis	B14-N07B
	C14-N07B
Cytidine	B04-B03A
	C04-B03A
Cytidylic acid	B04-B03B
	C04-B03B
Cytochrome P450	B04-L03C
	C04-L03C
Cytoprotective	C14-H01B
Cytosine	B04-B03A
	C04-B03A
Cytostatic	B14-H01B
	C14-H01B
Cytoskeletal protein	B04-N06
	C04-N06

## D

Dacron	A05-E04+
	F01-D04A
Dactinomycin (actinomycin)	B02-A
	C02-A
Dammar	A03-C02
Dandruff treatment	B14-N17E
	C14-N17E
Data storage units	L03-H03A
Daunomycin	B02-D
	C02-D
Deactivators for polymerisation catalysts, controllers	A02-C
Deaerating boiler feed water	D04-A03B
Dealkylation (petroleum refining)	H04-E09
Deamination	E11-G07
Deasphalting (petroleum refining)	H04-A08
Deburring of plastics articles	A11-A05B
Decaffeinated or decaffeinating coffee	D03-D01B
Decaffeinated or decaffeinating tea	D03-D02B
Decalcomanias (decals)	A12-W07F1
	F03-F27
	G05-F01
	L02-A07
Decanedioic acid	E10-C02D
	E10-C02D2
condensant	A01-E12
Decarboxylase agonist	B14-L01A4
	C14-L01A4
Decarboxylase inhibitor	B14-D08
	C14-D08
Decarburising ferrous melts	M24-C06
metal	M24-D05
Decatising fabrics	F03-A02
Dechlorinated/dechlorination	A10-E04
Decongestant	B12-K05
	B14-K01E
	C12-K05
	C14-K01E
Decontamination (radioactivity)	K07-A03
Decorating	
ceramics or concrete	L02-A07
glass	L01-G09
refractories	L02-A07
textiles	F03-H
Decorative coatings on concrete	L02-D14P
Decorative laminates production	A11-B09B
Decorative laminates, board	A12-A04A

Decyclization	
catalytic	N07-F08
ring opening reaction process	E11-A02
ring opening reaction apparatus	E11-A02
Deep drawing	
polymers	A11-B08+
sheet metal	M21-E03
Deep-relief printing plates	G05-A02
Defectoscopy	G04-B09
Deflashing of polymer (mouldings)	A11-A05B
Defoaming agents for detergents	D11-B08
polymers	A08-S03
Defoliants	B12-P02
	C12-P02
	C14-U01A
Defrosting foodstuff	D03-K12
Degassing	
ferrous melts	M24-C
liquids	J01-D02
non-ferrous melts	M25-F
polymers	A11-A
solids	J01-G05
Degradation of polymers	A10-E05+
	B11-C01
	C11-C01
	E11-C
Degraded polymers	A10-E05+
Degrading fibres to improve properties	F03-C08
Degreasing compositions	G04-B08
Degreasing metals	M12-B01
Degutting fish	D02-A02
Dehalogenated/ dehalogenation of polymers	A10-E04
Dehalogenation reaction	E11-G04
Dehumidification	J01-E01A
Dehydrating oil well effluent	H01-E01
Dehydrating sludge from waste water	D04-B10
Dehydration	E11-G05
Dehydrogenase	
agonists	B14-L01A1
	C14-L01A1
inhibitors	B14-D05D
	C14-D05D
Dehydrogenases	B04-L03D
	C04-L03D
Dehydrogenated/ dehydrogenation of polymers	A10-E11
Dehydrogenation (process)	B11-C01
	C11-C01
	E11-E
for petroleum refining of carbon-carbon (C-C) bonds	H04-E03
of carbon-carbon (C-C) bonds	E11-E02
of carbon-carbon (C-C) bonds (catalytic)	N07-C02

other than of carbon-carbon (C-C) bonds (catalytic)	N07-C03	Dentistry preparations	D08-A	solutions/salt mixtures	M12-A03
Dehydrohalogenated/ dehydrohalogenation of polymers	A10-E04	Dentrifices	A12-V04B B12-M02A C12-M02A	pickling, inhibitors	M12-A02
Dehydrohalogenation reaction	E11-G04		D08-B08A	pickling, solutions/salts mixture	M12-A01
Dehydroxylation	E11-G06	Dentures	A12-V02B D08-A03	Desensitisers, electron acceptors, photographic	G06-H06
Deicing compositions	G04-B05	Deodorants		Desiccants agricultural	B12-P02 C12-P02 C14-U01A
Delay lines	L03-G01	air	D09-B	Designing	
Delayed release	B12-M10B C12-M10B	body	B12-L01 B14-R03 C12-L01 C14-R03	knitted fabrics	F02-B01
Delivery of molten glass	L01-C04		D08-B09	woven fabrics	F02-A02
Delrin®	A05-H02+		D09-B02	Desizing of fabrics	F03-B
Delustrants for polymers		candles	D09-B01	Desoldering apparatus	M23-A03
inorganic	A08-E02	devices	A08-M04	Desulphurising	
organic	A08-E03C	polymer	F03-C09	ferrous melts	M24-C01
Demetallisation (petroleum refining)	H04-A02	textile treatment	J01-E01B	petroleum refining	H04-A01
Demisting compositions	G04-B05	Deodorization	H04-A09	water	D04-B07D
Demyelinating disease treatment	B14-S01 C14-S01	Deoiling (petroleum refining)	M24-C02	Detection, determination of catalysts	N06-D
Dendrimer	B04-C03E C04-C03E	Deoxidising ferrous melts	D04-A03B	Detection, general	E11-Q J04-C K02-A04
Denitrification (petroleum refining)	H04-A03	Deoxygenation of water	B04-B04A1 B04-E01 C04-B04A1 C04-E01	of NBC agents	see also compounds detected and detecting compounds
Denitrification inhibitors	B12-N08 C12-N08 C14-T01D	Deparaffination	H04-A10A	Detectors	
Density control agents for explosives	K04-G	Dephosphorising ferrous melts	M24-C01	electrical	A12-E13
Dental	A12-V B12-L03 B14-N06 C12-L03 C14-N06 D08-A	Depilatories	B12-L02 B14-R01 C12-L02 C14-R01 D08-B07	fire, smoke, burglar	A12-R02
		Depolymerisation, (process)	A10-E05+ B11-C01 C11-C01 E11-C	Detergents	
adhesives	A12-V02B D08-A02	agents	A08-M08	additives (non surface active)	D11-B
cements	A12-V02B D08-A02	carbonisation	A10-E05B	bleaches for	D11-B01
fillings	A12-V02B D08-A01	catalysts	A08-M08	fibres or fabrics use	A12-W12A
floss	A12-V04B D08-B08E	pyrolysis of polymer waste to monomers/ oligomers	A10-E05A A10-E05C	formulation	D11-D
instruments	D08-A04	Depolymerised polymers	A10-E05+	fuel additives	H06-D03
porcelain	L02-G03A	Deposit prevention in heat exchangers	J08-D02	granular laundry compositions	D11-D08
prostheses	A12-V02B D08-A01	Dermatitis treatment	B12-A07 B14-N17C C12-A07 C14-N17C	laundering textiles use	F03-J03
strips	D08-B08D	Derris extracts	B04-A07B C04-A07B	lubricant additives	H07-G03
Dental toilet requisites	A12-V04B D08-B08	Desalination of brine or sea water	D04-B07F	petroleum products	H08-E05
Dental use of specific polymer types		Desalting (crude oil)	H01-E01	polymer use	A12-W12+
(meth)acrylate		Descaling of metal		production by sulphonation	D11-D05
(co)polymers	A04-F06E5	mechanical	M21-N	special materials and methods	D11-D
cellulose ethers	A03-A04A1	pickling	M12-A	special use of	D11-D01
polyamides	A05-F01E3	pickling, apparatus	M12-A04	surface active, non-soap	D11-A
polyethylene	A04-G02E3	pickling, disposal/ regeneration of		thickeners	D11-B24
polypropylene	A04-G03E1			testing	D11-D
PVA	A10-E09B2			without tensides	D11-F
silicones	A06-A00E3			Determination, general - see also compounds determined and determining compounds	E11-Q
				Detonators	K04-B01
				Detoxification treatment	B12-J05 C12-J05
				for alcoholics	B14-M01A C14-M01A
				for drug addicts	B14-M01C C14-M01C

general	B14-M01	Diacrylate polymer paints	G02-A02C4	from cellulose fibres,	
	C14-M01	Diagnosis	A12-V03C2	paper making pulp	F05-A07
Deuterium (production)	B05-A04A		B12-K04	Diaphragms	B14-P01B
	B05-C08		C12-K04		C14-P01B
	C05-A04A	Diagnosis of diseases in animals	B12-K04A	contraceptives	B12-K03
	C05-C08		C12-K04A	mechanical engineering	A12-H07
	E31-A	Dialkyl orthophosphate (or salt)	B05-B01P	Diarrhoea treatment	B12-J04
Deuterium compounds	B05-A04A		C05-B01P		B14-E02
	B05-C08		E05-G09C		C12-J04
	C05-A04A	Dialkylaminoalkyl (meth) acrylates	E10-B02E	Diarylmethane dyes	C14-E02
	C05-C08	(co)polymers	A04-D09	Diatomaceous refractories	E25-D
inorganic	E31	monomer	A01-D07	Diatomite	L02-E02
	E32		A01-D10B		B04-D02
	E33	Diallyl amine	E10-B04B	fillers	C04-D02
	E34	(co)polymers	A04-B	Diazete	A08-R06A
	E35	monomer	A01-C04		B07-D07
organic	E05-R	Diallyl ethers	E10-H01		C07-D07
Developer stabilisers (photographic)	G06-H03	(co)polymers	A04-B	Diazo compounds	E07-D07
Development (photographic)		monomer	A01-C04		B10-A16
accelerators	G06-H12	Diallyl fumarate	E10-G02		C10-A16
black and white silver		(co)polymers	A04-A03		E10-A16
halide	G06-G01	monomer	A01-B03		E10-A16A
colour	G06-G10	Diallyl glycol carbonate	E10-A11B	Diazo element (radiation sensitive system)	E10-A16B
nuclei	G06-A04		E10-A11B1		G06-F02
of photosensitive resin			E10-A11B2	Diazo processing	G06-G09
systems	G06-G17	(co)polymers	A04-B09	Diazonium compounds	B10-A16
polymer use in	A12-L02F	monomer	A01-C01		C10-A16
restrainers	G06-H13	Diallyl maleate	E10-G02		E10-A16
Devices for animal body (use on or in)	B11-C04	(co)polymers	A04-A03		E10-A16A
	C11-C04	monomer	A01-B03		E10-A16B
Devices for drying food	D03-K09	Diallyl phthalate	E10-G02	Dibenz(b,f)azepine	E21-E
Devices for deodorising/sterilising	D09-B01	(co)polymers	A04-B09		B06-D12
Devolatilisation of polymers	A10-G01A	monomer	A01-C01		C06-D12
Dewatering on papermaking machines	F05-A04B	production	E10-G02A		E06-D12
Dewatering sludge	D04-B10A	use	E10-G02A1	Dibenzazepine (excluding dibenz (b,f)azepine)	B06-D13
Dewaxing (petroleum refining)	H04-A10		E10-G02F		C06-D13
Dextrans	A03-A+	Dialysis	E10-G02F1		E06-D13
	B04-C02C	in test	J01-C03B	Dibenzocycloheptane	B08-D01
	C04-C02C		B11-C08D3		C08-D01
	D06-H01	membranes	C11-C08D3		E08-D01
Dextrins	A03-A+		A12-W11A	Dibenzodiazepine	B06-D16
	B04-C02B	water	D04-A01D		C06-D16
	C04-C02B	with hollow fibres	D04-A01E		E06-D16
	D06-H	Diamine, hexamethylene	F04-E04	Dibenzodiazocine	B06-D16
Diabetic dietary foods	D03-H01T5	condensant	E10-B01E		C06-D16
Diabetes treatment	B12-H05	Diamines - see also Polyamine	A01-E05	Dibenzofuran	E06-D16
	B14-S04		B10-B01		B06-A03
	C12-H05		C10-B01		C06-A03
	C14-S04	condensants	E10-B01		E06-A03
Diabetes monitoring	J04-B01B1	Diaminotriazines	A01-E05	Dibenzopyran	B06-A03
type II diabetes	B14-S04A	condensants	E07-D13		C06-A03
	C14-S04A	Diamond (production)	A01-E01		E06-A03
Diacetone acrylamide			E31-N03A	Dibenzothiophene	B06-B02
(co)polymers	A04-D04+	Diamond abrasives	L02-F05		C06-B02
monomer	A01-D05	Diapers	L02-F05	Dibenzoyl peroxide	E06-B02
	A01-D06		A12-V03A	for crosslinking addition	E10-A04
			D09-C		
			F04-C01A		

polymers	A08-C05	Diene polymer coatings	A12-B01C	Dihaloamines (organic)	E10-A02
for crosslinking other			G02-A02D1	Dihydric alcohols condensants	A01-E14
polymers	A08-D	Diene polymer polyol		Dihydric phenols	
polymerisation catalyst	A02-A01	polyurethane	A05-G	condensants	A01-E13
redox catalyst	A02-A03	Diene rubbers	A04-B+	Dihydrofuran	B07-A01
Dibutyl adipate	E10-G02	based adhesives/binders	A12-A05A		C07-A01
plasticiser	A08-P04		G03-B02B		E07-A01
(Di)butyl maleate	E10-G02	Dies		Dihydropyran	B07-A03
(co)polymers	A04-F07	die casting dies	M22-G03D		C07-A03
monomer	A01-D10	forging, hammer and			E07-A03
	A01-E12	pressing dies	M21-J02	Dihydropyridine	B07-D04D
Dicarboxylic acid - see		metal casting dies	M22-G03G3		C07-D04D
Polycarboxylic acid		metal drawing dies	M21-B01B		E07-D04D
Dicarboxylic acid, aliphatic		metal extrusion dies	M21-B02C	Dihydroxy benzophenone	E10-E02D2
derived saturated polyesters	A05-E02	rolling dies	M21-A02	condensants	A01-E13
Dicarboxylic acids and		Dietary fibre	D03-H01T1	Dihydroxy diphenyl ether	E10-E02D2
diisocyanates derived		Dietary foods e.g. diabetic,		Dihydroxy diphenyl ketone	E10-E02D2
polyamides	A05-F	gluten free	D03-H01T5	condensants	A01-E13
Dichlorobenzene	E10-H02E	Diesel fuel	H06-B04	Dihydroxy diphenyl methane	E10-E02D4
	E10-H03C1	Dietetics	B12-J01	condensants	A01-E13
	E10-H04C1		B14-E12	Dihydroxy diphenyl propane	E10-E02D4
condensant	A01-E		C12-J01	condensants	A01-E13
Di(chloromethyl)		Diethanolamine	C14-E12	Dihydroxy diphenyl sulphide	E10-E02D1
oxacyclobutane	E07-A03	condensant	E10-B03B	condensants	A01-E13
(co)polymers	A05-H		A01-E05	Dihydroxy diphenyl sulphone	E10-A10B
monomer	A01-E08		A01-E14	condensants	A01-E13
1,1-Dichloroethylene	E10-H02G	Diethyl aluminium chloride	E05-B02	Dihydroxydiphenyl ether	A01-E13
	E10-H03C3	catalyst	A02-A07+	Diisobutene	E10-J02C
	E10-H04C3		N05-A	(co)polymers	A04-G
(co)polymers	A04-E07	Diethyl terephthalate	E10-G02	monomer	A01-D13
homopolymer	A04-E06	condensant	A01-E11	Diisobutylene	E10-J02C
monomer	A01-D12	Diethylene glycol	E10-E04H1	(co)polymers	A04-G
Di(chlorophenyl)sulphone	E10-A10B	condensant	A01-E14	monomer	A01-D13
condensant	A01-E	Diethylene triamine	E10-B01E	Diisocyanate + diacids	
Dicing semiconductor wafers	L04-C07E	condensant	A01-E05	derived polyamides	A05-F
Dicotyledons	B04-A08C2	Diffusion apparatus for		Diisocyanates	E10-A14
	C04-A08C2	semiconductor processing	L04-D06		E10-A14A
Dicumyl peroxide	E10-A04	Diffusion bonding	M23-E		E10-A14B
catalyst for polymerisation	A02-A01	Diffusion coating metal	M13-D	condensants	A01-E02
crosslinker for addition		using gas	M13-D03	Dilauroyl peroxide	E10-A04
polymers	A08-C05	using liquid	M13-D02	catalyst for polymerisation	A02-A01
crosslinker for other		using solid	M13-D01	crosslinker for addition	
polymer	A08-D			polymers	A08-C05
redox catalyst for		Diffusion doping of		crosslinker for other	
polymerisation	A02-A03	semiconductor layers	L03-C02D	polymers	A08-D
Dicyandiamide	E10-A15	Diffusion transfer		redox catalyst	A02-A03
condensant	A01-E03	photographic systems		Diluent for polymers	A08-S02
Dicyandiamide-formaldehyde		multicolour	G06-C09+	reactive	A08-P
resin	A05-B	single colour	G06-C10+		
Dicyclopentadiene	E09-D02	Digested material treatment		Dimensional stabilisation of	
(co)polymers	A04-B	before paper formation	F05-A03	fabrics, chemical treatment	F03-C04
monomer	A01-C05	Digesting pretreatment in	F05-A02A	Dimerisation	A10-B08
Dicyclopentadiene dioxide	A05-A05	papermaking	A05-A04		E11-F01A
	E06-A03	Diglycidyl carboxylates	E07-A03	equipment	A10-B01
Die plates for forming fibres	F01-C01	Diglycidyl derivatives of		Dimerised fatty acids	
Dielectric	L03-B03	amines	A05-A04	condensants	A01-E12
ceramic oxides	L02-G07C		E07-A03	Dimethano(1,4:5,8)-	
inorganic compositions	L03-B03E	Diglycidyl ether of bisphenol A	A05-A02	naphthalene	B09-C02
material	L03-B03		E07-A03		C09-C02
organic compositions	L03-B03F	polyisocyanate based			E09-C02
polymer properties	A09-A03	polyoxazolidone	A05-A02	Dimethyl formamide	E10-D03D
			A05-J02	Dimethyl phthalate	E10-G02

condensant	A01-E11	heterocyclic known structure)	E10-A07	agents for dyes/pigments for polymers	A08-M01A
Dimethyl polysiloxane	A06-A+	Disaccharides (unknown structure or general)	B04-D01	processes	J02-A03A
Dimethyl vinyl ethynyl carbinol monomer	A01-B01		C04-D01	Dispersion coating process	A11-B05D
Dimethylaminomethyl methacrylate	E10-B02E		D06-G	Dispersion hardening of metals by	
(co)polymers	A04-D09	Discharge devices, iron and steel production	M24-A05C	casting method	M22-G03K
monomer	A01-D07	Discharge dyeing/ printing of fibres	F03-F28	heat treatment - see Heat treatment	
Dimethylol urea	A01-D10B	Discharge tubes or lamps	L03-C	physical method (ferrous metal)	M24-D06
	A05-B03	Discharge, electric		physical method (non-ferrous metal)	M29-D
	E10-A13B	chemical modification of polymers by	A10-E10	powder metallurgy	M22-H03F
	E10-A13B1	surface treatment of polymers	A11-C04E	Dispersion, aqueous	A07-B+
	E10-A13B2	Discontinuous paper/ cardboard sheets formation	F05-A04D	Dispersions, polymer	A07-B+
Dinitrosopenta- methylene tetramine blowing agent	A08-B03	Discs		Displacement techniques, oil wells	A12-W10B
Diocetyl phthalate	E10-G02	floppy	A12-E08A2	Displacing liquids by another fluid	J01-C02
plasticiser	A08-P02		L03-B05B	Display devices	L03-G05
Diodes		gramophone	A12-W01	electronic	L03-G05C
rectifiers	L04-E02	magnetic recording	A12-E08A2	liquid crystal	A12-L03B
semiconductor	L04-E03A		L03-B05B		L03-G05A
Diolefinic (co)polymers	A04-B+	magneto-optical	G06-D07	liquid crystal, components for	L03-G05B
Diolefinic monomers	A01-C+	optical	A12-L03C		
Diols condensants	A01-E14	video	G06-D07	Displays - (see also Advertising)	A12-W03
Dioxane	E07-A04	Dishwasher detergents	A12-W01A	Disposal of old tyres	A12-T01D
Dip coating with polymers	A11-B05A	Dishwasher rinse aids	D11-D01A	Dissolution, pore forming by	A11-B06D
Dip for tyre cords		Disinfectants	D11-D07E	Dissolving out a component (purification of polymers)	A10-G01+
non-polymeric	A08-M01+		B12-A01	Dissolving/degrading treatment for fabrics	F03-C08
polymeric	A12-T01C		B14-A01	Distillation	J01-A02A
Dip moulding/ forming of polymers	A11-B04B		C12-A01	Apparatus	J01-A02A3
Diphenyl methane diamine	E10-B01B		C14-A01		J01-A02A4
condensants	A01-E05		D09-A01	columns	J01-A02A2
Diphenyl methane diisocyanate	E10-A14		D09-A02	extractive	J01-A02A1
	E10-A14A			fermented solutions	D05-D
	E10-A14B			fuels	H06-B08
condensants	A01-E02			of polymers	A10-G01+
Diphenylol ether	E10-E02D2	polymer additives	A08-M02	petroleum processing	H02-A
condensants	A01-E13	Disinfection		water treatment by	D04-A01A
Diphenylol ketone	E10-E02D2	aseptic environment	D09-B03	Distomiasis treatment	B12-B06
condensants	A01-E13	chemical methods	D09-A01		B14-B03
Diphenylol methane	E10-E02D4	candles	D09-B02		C12-B06
condensants	A01-E13	of air	D09-B		C14-B03
Diphenylol sulphide	E10-E02D1	of materials (other than food)	D09-A	Distribution of electricity	L03-H01
condensants	A01-E13	physical methods	D09-A02	Distributors for use in forming fibres	F01-C01
Diphenylol sulphone	E10-A10B	Disintegrating		Disulphides (organic)	B10-A04
condensants	A01-E13	plant	J02-B01		C10-A04
Dipping, coating with polymer by	A11-B05A	processes	J02-B02		E10-A04
Dipping, polymer articles formed by	A11-B04B	Dispensers (excluding syringes)	B11-C03	Dithiocarbamates	
Dipropylene glycol	E10-E04H1		C11-C03	accelerators for crosslinking	A08-C03
condensant	A01-E14	foodstuffs	D03-K10		A08-D04
Direct contact heat exchangers	J08-B	Dispersants	J02-A03		
Direct contact trickle coolers	J08-B01	for dyes/pigments for polymers	A08-M01A		
Direct dyes for dyeing/ printing fibres	F03-F20	Disperse dyes for dyeing printing fibres	F03-F18		
Direct electron recording	G06-D03	Dispersing agents	J02-A		
Direct positive materials for photosensitive systems	G06-C05		B12-M09		
Disaccharides (non-			C12-M09		
			J02-A03C		
		apparatus	J02-A03B		

Dithiocarbamic acid, or ester (organic)	B10-A12A C10-A12A E10-A12A E10-A12A1 E10-A12A2	fusion genes	B04-E02H B04-E03H C04-E02H C04-E03H D05-H12C	transgenes	B04-E02+ C04-E02+ D05-H12C
Dithiocarbonic acid ester	B10-A11A C10-A11A E10-A11A E10-A11A1 E10-A11A2	general	B04-E01 C04-E01 D05-H12	vectors	B04-E08 C04-E08 D05-H12E
Dithiole	B07-B03 C07-B03 E07-B03	hybridisation test method	B11-C08E5 C11-C08E5	wild-type coding sequences	B04-E03+ C04-E03+ D05-H12A
Diuretics	B12-G03 B14-N08 C12-G03 C14-N08	hybridisation test reagent	B12-K04F C12-K04F		DNAzyme B04-E07B C04-E07B D05-H12D7
Divided (powdery), forms of polymers	A12-S09+	micro RNA	B04-E07D C04-E07D D05-H12D8B	DNA/RNA polymerase	
production of	A11-A04	mitochondrial	B04-E07 C04-E07	agonists	B14-L01A2 C14-L01A2
Divinyl benzene (co)polymers	E10-J02B A04-B10 A01-C03	mutant sequences	B04-E02+ B04-E02+ D05-H12B	inhibitors	B14-D06A C14-D06A F02-A02
monomer	A01-C03	non-coding sequences	B04-E07 C04-E07 D05-H12D	Dobbys	
Divinyl benzene-styrene copolymer	A04-B10 A04-C04+	oligonucleotides	B04-B03C C04-B03C	Doctors for papermaking machines	F05-A05
Divinyl ether (co)polymers	E10-H01 A04-B A01-C04	oncogene	B04-E02G B04-E03G C04-E02G C04-E03G	Dodecylbenzene sulphonate	E10-A09B
monomer	A01-C04		B04-E08 C04-E08	Dodecylactam condensant	A01-E04
Divinyl toluene (co)polymers	E10-J02B A04-B10 A01-C03	plasmids		Doffing of bobbins	F01-H03C
monomer	A01-C03	polymerase, for use in genetic engineering	D05-H19B	Dog bones (synthetic)	D03-G06
DMC	A12-S	polymerases	B04-L04A C04-L04A	Dolomite preparation	L02-B02
DNA - see also Nucleic acid amplification method	D05-H18B	primers	B04-E05 C04-E05 D05-H12D1	Domestic	C14-X
DNA/RNA	B04-B04A1 C04-B04A1	probes	B04-E05 C04-E05 D05-H12D1	Donning of bobbins	F01-H03C
antisense sequences	B04-E06 C04-E06 D05-H12D2	regulation sequences	B04-E04 C04-E04 D05-H12D5	Doors, polymer use in	
biosynthesis of cDNA	D05-C07 D05-H12	ribosomal	B04-E07 C04-E07	building	A12-R02A
DNA/RNA chip	B11-C08E6 C11-C08E6	ribozyme	B04-E07A C04-E07A D05-H12D4	glazing	A12-R04
coding sequences (altered)	B04-E02 C04-E02	sequencing method	B11-C08E4 C11-C08E4	transport	A12-T04+
coding sequences (other)	B04-E03 C04-E03	short interfering RNA	D05-H18A B04-E07C C04-E07C D05-H12D8A	DOP plasticiser for polymers	A08-P02
cosmids	B04-E08 C04-E08 DNAzyme B04-E07B C04-E07B D05-H12D7	small hairpin RNA	B04-E07E C04-E07E D05-H12D8C	Dopaminergic	B14-J02C2 C14-J02C2
DNA probe test method	B11-C08E5 C11-C08E5	transfer RNA	B04-E07 C04-E07	Doping	
DNA probe test reagent	B12-K04F C12-K04F			glass, surface doping	L01-G05A
				Doping semiconductors	
				layers, and regions - general	L04-C02
				layers, by diffusion	L04-C02D
				layers, by direct contact	
				with liquid or solid	L04-C02C
				layers, by ion implantation	L04-C02B
				layers, simultaneously	
				with layer formation	L04-C02A
				single crystals	L04-B03
				Dosimeters	A12-L
				personal	K07-A01
				Dosing in polymer processing	A11-A
				Dots, magnetic	L03-B06
				Doubling of fibres, yarn	F01-H01
				Dough	D01-B
				additives	D01-B01
				containers for	D01-A04
				cutting and dispensing	
				equipment	D01-A02
				handling	D01-A
				mixing equipment	D01-A05
				shaping	D01-A02
				transporting equipment	D01-A03
				Dough moulding compounds	A12-S

Downhole protector	H01-B03C5	other drug testing	B12-K04E3	formulation	E27-A02
Downy mildew	C14-A06P		C12-K04E3	general	E25
Doxorubicin	B02-D	Drums (containers) and		LCD	L03-G05B3
	C02-D	drum linings	A12-P05	levellers for fabrics/fibres	F03-F32
Doxycycline	B02-T	Drums (musical)	A12-W08	levellers for polymers	A08-M01A
	C02-T	Dry cleaning textiles	F03-J04	morphology of	E27-B02
Drafting yarn	F01-F02	Dry etching semiconductors	L04-C07B	precursors	E26
Drain cleaners	D11-D01E	Dry powder inhaler	B12-M01B1	precursors, couplers (azo	
Draperies	A12-D01		C12-M01B1	or oxidation)	E26-A
	F04-D03	Dry spinning	A11-B15C	precursors, lactone,	
Draw texturing of fibres	F01-C06		F01-C08A	lactam, sultone, sultam,	
	F01-H04+	Dry toning, electrophotographic	G06-G05	photochromic, or spiropyran	E26-B
Drawing		Dry-laying non-woven fabrics	F02-C02	precursors, others	E26-C
artificial filaments	F01-C06	Drying		receptiveness, improving	
equipment	M21-B01B	agents (siccativ)	G02-B04	agents for polymers	A08-M01A
glass from melts	L01-D01	apparatus or machines	J08-G	receptiveness, properties	
metal sheets, wires, rods,		ceramics or refractories	L02-A03	of polymers	A09-A06
tubes or profiles	M21-B01	coffee	D03-D01D	receptiveness, treatment	
optical glass fibres	L01-F03G	compression	J08-F05	for fabrics/fibres	F03-C06
polymers	A11-B02+	fabrics (laundering)	F03-J01	release diffusion transfer	
processes	M21-B01A	fabrics (non-laundering)	F03-A02	materials, multicolour	G06-C09A
slivers	F01-F02	food (devices)	D03-K09	release diffusion transfer	
texturing yarns only by	F01-H04C1	gases	J01-E01	materials, single colour	G06-C10A
Dresses of fabric	A12-C03	general applications	J08-H	removal from water	D04-B06B
	F04-C03	hot blast	M24-A05E1	treatment (of)	E11-Q
Dressing of fibres, yarns	F01-H06+	in polymer processing	A11-A02+	Dye type	A08-E03+
Dressings for wounds	A12-V03A	oils	G02-B03		F03-F+
	D09-C+	oils, containing polyesters	A05-E08	acid, anionic	F03-F21
	F04-E04	processes	J08-F	anthraquinone	A08-E03B
Drier sections, of papermaking		processes, photographic	G06-E05		E22
machines	F05-A04C	purification of polymers by	A10-G01A	azo	A08-E03A+
Driers for paints	G02-B04	sludge from water	D04-B10		E21
Driers for textiles	F03-J01	tea	D03-D02D	azo, dis- or poly-	A08-E03A3
Drilling fluids	A12-W10A	through air drying	J08-H02	azo, mono-, water insoluble	A08-E03A2
	H01-B06	wood	F05-B	azo, mono-, water soluble	A08-E03A1
additives	H01-B06C	Dual-in-line packaging	L04-F05	basic, cationic	F03-F22
oil-based	H01-B06B	Dual release devices	B12-M10A6	direct	F03-F20
water-based	H01-B06A		C12-M10A6	disperse	F03-F18
Drilling mud	A12-W10A	Duchennes Muscular Dystrophy	B14-J05E	fluorescent	E24-A
	H01-B06		C14-J05E	fluorescent brightener	A08-E03C
additives	H01-B06C	Durable press fibre/ fabric			D11-B01
mixing and processing	H01-B03A2	treatment			E24-A
oil-based	H01-B06B	non-resinous	A12-S05R		F03-B01
water-based	H01-B06A		F03-C04	general	E25
Drilling of polymers	A11-A05A	resinous	A12-G02	leuco vat	F03-F23
Drilling, methods or			F03-C04	light sensitive, for	
equipment (oil and gas)	H01-B	Dusting agents for polymers	A08-M07	radiation sensitive	
Drip-dry finishes for textiles	F03-C04	Dusting powders	B12-M02E	systems	G06-F05
Drive fluids for oil wells,			C12-M02E	Luminescent containing	
polymer use	A12-W10B	Dwarfism treatment	B14-S02	metals	E24-A06A
Drug combination	B14-S18		C14-S02	Luminescent general	E24-A06
	C14-S18	Dye		Luminescent heterocyclics	E24-A06B
Drug Design by computer		addition to paper, cardboard	F05-A06D	Luminescent others	E24-A06C
modelling	B11-C08H	auxiliaries for fibres	F03-F32	macrocyclic	E23
Drug Screening	B11-C08	composition containing		metal complex	F03-F25
	C11-C08	polymer	A12-W11H	natural dye of unknown	
Drug testing	B12-K04E	destruction colour		structure	E25-F
	C12-K04E	material for		optical brightener - see	
drug discovery	B12-K04E1	photosensitive systems	G06-C03	Fluorescent brightener	
	C12-K04E1	dispersants for fabrics/fibres	F03-F32	pigment for fibres, fabric	F03-F17
		dispersants for polymers	A08-M01A		

pigment inorganic for polymers	A08-E02
reactive organic for polymers	A08-E04
	F03-F19
special classes	E24
sulphur	F03-F24
vat	F03-F23
Dyeability of polymers	A09-A06
Dyed textiles, after-treatment(of)	F03-F14
Dyeing	
aids for polymers	A08-M01A
apparatus	F03-F01
auxiliaries for fabrics/fibres	F03-F32
fabrics/fibres	F03-F+
of polymers	A11-A01+
of wood	F05-B
processes, after-treatment(s)	F03-F14
processes, cheese	F03-F29
processes, cop	F03-F29
processes, discharge	F03-F28
processes, foam	F03-F26
processes, general	E11-R
	F03-F+
processes, solvent	F03-F13
processes, spin	F03-F30
processes, transfer	F03-F27
processes, warp	F03-F29
Dyes for: (including Dyeing of)	
acrylics	F03-F05
animal substrates (e.g. silk wool)	F03-F02
cellulose esters	F03-F04
cellulose(ics)	A12-S05N
	F03-F03
	F03-F09
crayons	G02-A04B
fabrics/fibres	F03-F+
filter(s) for light sensitive compositions	G06-A02
food	D03-H01E
hair	D08-B06
inorganic fabrics/fibres	F03-F12
metallic fabrics/fibres	F03-F12
methacrylic fabrics/fibres	F03-F05
paper	F05-A06D
pencil leads	G02-A04B
polyamides	A12-S05N
	F03-F06+
polyesters	A12-S05N
	F03-F07+
polymers	A08-E+
polyolefins	F03-F08
polyurethanes	F03-F10
polyvinyl alcohol	F03-F11
polyvinyl chloride	F03-F11
printing inks	
printing inks, general	G02-A04B
printing inks, polymeric	A12-W07E
regenerated celluloses	F03-F09

screening light sensitive compositions	G06-A02
spandex® fabrics/fibres	F03-F10
textiles, of general application	F03-F16+
vegetable substrates	F03-F03
vinyl fabrics/fibres	F03-F11
Dynamic modulus of polymers	A09-A05
Dysentery treatment	B12-B01
	B14-E10D
	C12-B01
	C14-E10D
Dyskinesia treatment	B12-E02
	C12-E02
Dyslipidemia treatment	B14-F06A
	C14-F06A
Dysmenorrhea treatment	B12-E09
	B14-N14
	C12-E09
	C14-N14
Dyspepsia treatment	B12-J03
	B14-E01
	C12-J03
	C14-E01
Dyspnea treatment	B12-K06
	B14-K01
	C12-K06
	C14-K01
Dysprosium compounds	B05-A03B
	C05-A03B
catalysts	N03-A02B
inorganic	E34-E02B
organic	E05-P
Dystonia treatment	B12-E02
	C12-E02

## E

Ear preparations (general)	B12-L04
	B14-N02
	C12-L04
	C14-N02
Earth consolidation	A12-A02
	A12-W10C
Ecdysone	B04-J16
	C04-J16
Ectoparasite treatment	B12-B04
	B14-B02
	C12-B04
	C14-B02
Eczema treatment	B12-A07
	B14-N17
	C12-A07
	C14-N17
Edema treatment	B12-G03
	C12-G03
general	B14-C03
	C14-C03
Edge crimping of fibres	F01-H04C
Edible fibres	F04-G
Educational devices, models	A12-F
Effluent treatment	A12-W11+
	E11-Q
aqueous	D04-A
	D04-B
Egg white	B04-B04A6
	B04-N02
	C04-B04A6
	C04-N02
Eggs (hen)	B04-B04M
	C04-B04M
Eggs and products	D03-M
preservation of	D03-A03
Einsteinium compounds	B05-A04
	C05-A04
inorganic	E35-R
organic	E05-Q
Ejection of polymer mouldings	A11-C06
Elaiomycin	B02-E
	C02-E
Elastase	B04-L05C
	C04-L05C
Elastic (e.g. spandex) fibres	A12-S05D
Elastic bands	A12-P07
Elastin	B04-N02
	C04-N02
Elbows, artificial	D09-C01D
Electrets	L03-B03
Electric devices production	
photographically	A12-L02B2
	G06-D06
Electric discharge	
chemical processes	A10-E10
polymerisation involving	A10-B
	A10-D+



surface treatment by	A11-C04E	saturated polyester use in	A05-E01D2	discharge lamps or tubes,	
Electric discharged polymer, chemically modified	A10-E10	silicone use in	A06-A00E2	non-emissive	L03-C01
Electric steels	L03-B02A3	Electricity generators,		electrochemical cells	A12-E09
Electric welding and cutting	M23-D	thermionic	L03-E05	electrolytic cells	A12-E09
apparatus	M23-D01B4	Electricity, applications to generation, conversion and distribution	L03-H01		J03-B01
arc	M23-D01	Electro steel processing	M24-B02D	electrophoresis cells	M28-C01
circuits	M23-D01B3	Electro(in)organic, general	L03	fuel cells	A12-E06A
electron beam	M23-D04	Electro-optical use	A12-E11+		L03-E04B
electroslag welding	M23-D07	Electro-osmosis	J03-D01	melting, graphite arc	L03-A02
induction heating	M23-D03	Electroacoustic	A12-E12	primary or secondary cells	L03-E01B
laser beam	M23-D05	Electrocardiograph equipment	A12-E+	semiconductor devices	A12-E07C
plasma	M23-D01		A12-V03C2		L04-C11C
terresistance welding	M23-D02	Electrocatalyst	J04-E04D	welding	M23-F
spark erosion	M23-D06	Electrocatalytic process	N07-G	Electrodes, glass	L03-A02
Electric well logging	H01-A02A	Electrochemical cells	A12-E09	Electrodes, target	L03-C02A
Electrical			L03-E	Electrodes, membrane	L03-E04B2
accumulators	A12-E06+		M23-D06	Electrodialysis	J03-D
drug administration device	B12-M10F	Electrochemical machining	B11-C01	purification of water	D04-A01E
	C12-M10F	Electrochemical processes or apparatus	C11-C01	Electroerosion machining	M23-D06
batteries	A12-E06+		E11-N	Electroforming	M11-D
cable insulation	A12-E02+		J03-A	Electrography - see	
cable insulation				Electrophotographic	
compositions	A12-E02A	Electrochemical treatment of water	D04-A01M	Electroless plating of metal	M13-B
capacitors	A12-E07B	Electrochromic materials	L03-G05C1	Electroluminescent displays	L03-G05F
circuit components	A12-E07+	Electrochromic displays	A12-E11A	Electrolysis of fused electrolytes to produce metals or alloys	M28-B
coils	A12-E08B		L03-G05C2	Electrolysis of solution to produce metals or alloys	M28-A
conductors	A12-E02+	Electrochromic dye precursors	E26-B	Electrolytes (electrodeposition), disposal or recovery of	M11-B06
discharge	B11-C01	Electrodecontamination, purification by	A10-G+	Electrolytes,	
	C11-C01	Electrodeposition		for capacitor	L03-B03H
	E11-N	coating with polymer by control systems	A11-B05A	for primary or secondary cells	L03-E01C
encapsulation	A12-E04	electrolytes (disposal or recovery)	M11-B06	Electrolytic	
epoxy resin use in	A05-A01E2	laboratory methods for multilayer deposition	M11-B08	capacitors	L03-B03A
fuel cells	A12-E06+	of chromium	M11-B02	cells	A12-E09
	L03-E04	of cobalt	M11-A01		J03-B02
glass, applications	L01-L04	of copper	M11-A02	cleaning of metal	M28-C
insulating cases or bodies	A12-E05	of iron	M11-A03	coating of metal with non-metallic layer	M11-H01
insulating oils	H08-D08	of metals and alloys	M11-A06A	construction and assembly of cells	M28-C03
insulation tape	A12-E03	of nickel	M11-A	conversion layers	M11-E
insulation, foam use in	A12-S04E	of noble metals	M11-A02	electrodes	J03-B01
machining	M23-D	of zinc	M11-A04		M28-C01
magnetic tape, devices	A12-E08A1	on difficult surfaces	M11-B05	etching of metal	M11-H02
material, coating		on printed circuits	L03-H04E3	general processes	J03-B09
compositions for	G02-A05B	on tubes, wires, etc.	M11-B05A	machining of metal	M23-D06
polymer use in	A12-E+	pretreatment of metallic substrates for special methods or chemical additives	M11-B04	metal treatment - control and testing	M11-J
potting compounds	A12-E04		M11-B09	operating and servicing of cells	M28-C02
production of hydrogen	E31-A02A	Electrodes for		polishing of metal	M11-H02
properties	A09-A03	accumulators	A12-E06A	polymerisation	A10-B
	A09-A04	batteries	A12-E06A		A10-D06
transformers	A12-E08B	discharge lamps or tubes, emissive	L03-C02A	production of composite metal coating	M11-B11
wire insulation	A12-E02			production of porous metal or metal powder	M28-D
wire insulation compositions	A12-E02A				
wire insulation treatment of polymers	A10-E10				
Electrical engineering	A12-E+				
epoxy resin use in	A05-A01E2				
polyamide use in	A05-F01E2				
polyethylene use in	A04-G02E4				
polyurethane use in	A05-G01E2				
PVC use in	A04-E02E1				
reinforced polymer use in	A12-S08D2				

production or refining of metal	M28-F	latent image transfer	G06-G08D	Electrostrictive devices	L03-G10
recording	G05-E	liquid toning	G06-G06	materials	L03-G09H
separators	J03-B03	photoconductive polymers	A12-L05B	Electrothermic production or refining of metal	M28-F
stripping of metallic layer or coatings	M11-H02	polymer use in	A12-L05+	Electrothermic treatment of alloy, metal or ore	M28-E
Electromagnetic screening	A12-E01A	processes, general and other	G06-G08+	Elimination processes	B11-C01
Electron acceptors	G06-H06	substrates	A12-L05D		CT1-C01
desensitisers	G06-H06		G06-G05B		E11-G
for heat sensitive systems	G06-F08A	toner transfer processes	G06-G08B	catalytic	N07-F+
Electron beam bombardment, radiation		toners	A12-L05C2	Elliptical optical glass fibres	L01-F03J
chemical modification by crosslinking by	A10-E10		G06-G05	Elvanol®	A10-E09+
Electron beam welding and cutting	M23-D04		G06-G06	Embossing paper	F05-A05B
Electron donors for heat sensitive systems	G06-F08A	Electrophotographic applications		Embossing polymers	A11-C04C
Electron exchange resins	A12-M+	direct electron recording	G06-D03	Embroidering	F02-F02
Electron Microscopy	B11-C08G3	lithographic films, paper	G06-D02	Embryo extracts	B04-B04H
	CT1-C08G3	optical storage storage media	G06-D07		C04-B04H
Electron sensitive resists	A12-L02+	photoresists	G06-D04	Emetics	B12-J06
Electron, direct recording	G06-D03	production of circuits	G06-D06A		B14-E06
Electroneutral detergents	D11-A04	production of electrical elements	G06-D06		C12-J06
Electronic applications of glass	L01-L04	production of opto-electronics	G06-D06B	Emissive electrodes	L03-C02A
ceramics, general	L02-G07	production of printing plates	G06-D05	Emollients	B12-A07
circuitry, basic	A12-E07+	X-ray materials	G06-D01		B14-R01
	L03-H02				C12-A07
components	A12-E07+	Electrophotographic use of (meth)acrylamide			C14-R01
	L03-G	(co)polymer	A04-D04A1	Emulsifiers	D08-B09
	L03-J	(meth)acrylate (co)polymer	A04-F06E4		A08-S05
Electrophoresis	A12-E09	phenoplasts, general	A05-C01B2		B12-M09
	J03-C	polyamides	A05-F01E3		C12-M09
	B11-C08D1	polyethylene	A04-G02E3	for food	H08-E07
tests	CT1-C08D1	polypropylene	A04-G03E1	Emulsion	J02-A03
		polyvinyl alcohol	A10-E09B2		D03-H01N
		silicone polymers	A06-A00E4		A07-B+
Electrophoretic coating of metal	M11-G	Electrophotography (see also section G)	A12-L05+		B12-M03
displays and materials	L03-G05G	using semiconductor devices	L04-E05E		C12-M03
Electrophotographic apparatus (see also G06-G05 to G06-G08+)	A12-L05C1	Electroplating (see also electrodeposition)		addition polymerisation	A10-B03
antireflective layer	G06-A02A	apparatus	M11-C	aqueous, of polymers	A07-B+
binders	A12-L05D	bath additives	A12-W12E	binders (photographic)	A12-L01
carriers	A12-L05C2	plastics	A11-C04B1		G06-A06
charge transfer	G06-G08D	printed circuits	L03-H04E3	breaking	J01-D03
charging	G06-G07		M11-B05A	breaking for oil well	
cleaning process (including removing toner from image or apparatus)	G06-G08E	Electroporation devices	D05-H20	effluents	H01-E01
developed image fusion	G06-G08C	Electrorheological devices	L03-G09F	explosives	K04-E01
developed image transfer	G06-G08B	Electroslag		formation (excluding by polymerisation)	A11-A03+
dry toning	G06-G05	remelting or refining	M28-E	fuels	H06-B09
electrically conductive layers	G06-A07	welding	M23-D07	graft copolymerisation	A10-C03B
equipment (see also G06-G05 to G06-G08+)	A12-L05C1	Electrostatic		paints (water based)	A12-B01A
fusing, fixing process	G06-G08C	applications of (in)organic materials	L03-H04B	polymerisation	A10-B03
imaging methods (particle migration)	G06-G08D	coating of or with metal	M13-H06		A10-C03B
		coating with polymer	A11-B05A		A10-D+
		precipitation from gases	J01-G04	spinning, fibres	F01-C07
		properties	A09-A03	stabilisers (photographic)	G06-H03
		recording	A12-L05+	supports (photographic)	A12-L01
		separation of solids	J01-K02		G06-B+
		spinning	F01-G	Emulsification	J02-A
				agents	J02-A03C
				apparatus	J02-A03B
				processes	J02-A03A
				Enamelling	M13-J

post-treatment	M13-J03	tubes or lamps	L03-C04	Epoxides (i.e. monoepoxides)	
pretreatment of surfaces	M13-J01	luminescent	L03-C04B	condensants	A01-E07
processes	M13-J02	Environment friendly	E11-W	Epoxides (unfused)	B07-A03
vitreous	L01-H06	Enzymes	A12-W11L		C07-A03
Enamels			B04-B02C		E07-A03
ceramic, polymer uses			B04-L01	Epoxides of bicycloalkenes	B06-A03
excluding coatings	A12-W12G		C04-B02C		C06-A03
polymeric	A12-B		C04-L01		E06-A03
Enantholactam condensant	A01-E04	agonist	B14-L01A	Epoxidised	
Encapsulated components			C14-L01A	drying oil plasticisers	A08-P07
electrical	A12-E04	biosynthesis of	D05-C03	novolac or resols	A10-E08C
non electrical	A12-W05	catalysts	N05-E	phenolic resins	A10-E08C
Encapsulating	A11-B05+	compositions (polymer use)	A12-W11L	phenoplasts	A10-E08C
electrical components	A12-E04	detergent additives	D11-B01D3	polybutadiene	A10-E06
integrated circuits, chips		general inhibitor activity	B12-G01B	polymers	A10-E06
etc. with lead frames			B14-D03	soybean oil plasticiser/ extender	A08-P07
and assemblies	L04-C02D		C12-G01B	Epoxy compound, polymerisation catalyst for	A02-A+
Encapsulation	J04-A06		C14-D03	Epoxy containing plasticisers	A08-P07
of pharmaceuticals	B12-M18	inhibitors	B04-B04F	Epoxy group containing condensants	A01-E07
	C12-M18		B04-M01	Epoxy paints, varnish or lacquer	
of printed circuit boards	L03-H04E8		C04-B04F		A12-B01L
of semiconductors,			C04-M01		G02-A02G
apparatus, moulds,		polymerisation catalyst	A02-A12	acrylic	G02-A02C1
hand equipment	L04-C20C	precursors, other	B04-L09	Epoxy resins	A05-A+
of semiconductors, in glass	L04-C20B		C04-L09	adhesives	A05-A01E3
of semiconductors, in resins	A12-E04	process excluding			A12-A05C
	A12-E07C	polarography or labelling	B11-C08E3		G03-B02E2
	L04-C20A		C11-C08E3	amination	A10-E18
Encephalitis	B14-N16	processes with enzymes		coatings/paints	A12-B01L
	C14-N16	fixed to carriers	D05-A01		G02-A02G
Encrustation of equipment, (with polymer) prevention of	A10-G02	processes with enzymes	D05-A02		A05-A05
End etherified polymers	A10-E08+	not fixed to carriers	A12-W11L	cycloaliphatic	A05-A01E2
End joining in winding	F01-H03B	supports	D05-A01	electrical encapsulation	A05-A01E+
Endocrine gland extracts	B04-B02D			general applications	A05-A01E3
	C04-B02D	tracers bound to antigen/ antibody	B11-C07A4	general applications, adhesives and binders	A05-A01E3
Endorphins	B04-J11		C11-C07A4	general applications, coatings	A05-A01E4
	C04-J11	EPDM	A04-G06+	general applications, electrical engineering	A05-A01E2
Enemas	B12-M08	Epichlorohydrin		general, compounding	A05-A01B
	C12-M08	(co)polymers	A05-H04	general, fabrication	A05-A01C
Energy conversion devices	L03-E05	amine condensates	A05-J09	general, production	A05-A01A
Engine exhaust gas		condensants	A01-E07	general, treatment	A05-A01D
detection/measurement	H06-C05	monomer	A01-E07	glycidyl ether of alcohols	A05-A03
treatment	H06-C04	rubber	A05-H04	glycidyl ether of phenols	A05-A02
	E11-Q02A	Epikote 828 ®	A05-A02	in polymeric blends	A07-A+
Engine systems (transport)	A12-T04C	Epilepsy treatment	B12-D04	other glycidyl compounds	A05-A04
Engineering			B14-J07	other specific compounds	A05-A
nuclear applications	K09-K		C12-D04	3,4-Epoxy-6-methylcyclo hexyl methyl-3,4-epoxy- 6- methyl cyclohexane carboxylate	A05-A05
tissue scaffold	D09-C01E		C14-J07		E06-A03
Engineering (application of polymers)		Epimerase	B04-L07	EPR	A04-G06+
chemical	A12-W11+		C04-L07	Equipment cleaning	
civil	A12-R+	Episulphides		of paper making equipment	F5-A04E
electrical	A12-E+	(co)polymers	A05-J05	of polymerisation equipment	A10-G
mechanical	A12-H+	condensants	A01-E07	Equipment control	A09-D+
nuclear	A12-W11C	Epitaxial growth of semiconductor layers - general	L04-C01	in extruders	A09-D02
Engines, jet	A12-T03	Epocryl ®	A10-E07B	in moulding processes	A09-D01
Enkephalins	B04-J11	Epon 828 ®	A05-A02		
	C04-J11	Epoxidation of polymers	A10-E06		
Entangling yarns	F01-H02				
Envelopes for discharge					

other	A09-D03	polymer modification by	A10-E07	cleaning	M11-H01
Equipment encrustation (with polymer), prevention of	A10-G02	Ester plasticisers	A08-P+	electrochemical machinery,	
Equipment for polymerisation		aliphatic esters	A08-P05	localised metal removal	M23-D06
addition (co)polymerisation	A10-B01	aromatic esters (excluding		etching	M11-H04
ordered addition		phthalates)	A08-P03	polishing	M11-H02
copolymerisation	A10-C+	hydroxy acid esters	A08-P06	Etching metal, sputtering	M13-G
polycondensation	A10-D04	inorganic esters	A08-P05	Etching polymer	A11-C04D
Equipment for processing and treating polymers		non-carboxylic esters	A08-P05	Etching processes in	
colouring, bleaching	A11-A01B	phosphorus esters	A08-P05	semiconductor manufacture	L04-C07
compounding, mixing,		phthalates	A08-P02	by dry methods	L04-C07B
homogenising	A11-A03A	Esterase		by ion beam	L04-C07A
extruder design	A11-B07C	agonists	B14-L01A3	in liquid phase	L04-C07C
injection moulds	A11-B12B		C14-L01A3	in vapour phase	L04-C07B
injection, other	A11-B12C	inhibitors	B14-D07A	using plasma	L04-C07D
others - see appropriate			C14-D07A	Ethacrylic acid	E10-C04H
process code		Esterification of polymer	A10-E07+	(co)polymers	A04-F04+
spinning heads, die design	A11-B15A	by saturated acids		monomer	A01-D08
Equipment, polymer use in		(derivatives)	A10-E07C	Ethane-1,2-diol	E10-E04H1
electrophotographic	A12-L05C1	by unsaturated		condensant	A01-E14
laboratory	A12-L04+	monobasic acids		Ethanol	E10-E04E2
medical	A12-V03+	(derivatives)	A10-E07B	production	D05-B03
photographic	A12-L+	by unsaturated polybasic		Ethanolamine	E10-B03B
Erasers	A12-D05	acids (derivatives)	A10-E07A	condensant	A01-E05
Erasing liquids	G02-A03C	Esterification, polymerisation by	A10-D05		A01-E14
Erbium compounds	B05-A03B	Esterified polymer	A10-E07+	Ethene	E10-J02C
	C05-A03B	Esters non-conjugated,		copolymers general	A04-G11
catalysts	N03-A02B	diolfinic (co)polymers	A04-B09	copolymers, with olefins	A04-G06+
inorganic	E34-E02B	Esters, acrylic (co)polymers	A04-A03	copolymers, with other	
organic	E05-P		A04-B09	monomers	A04-G08+
Ergot alkaloid	B04-A03		A04-F06+	copolymers, with vinyl	
	C04-A03	Esters, cellulose	A03-A02+	acetate	A04-G07
Erosion (soil) prevention	A12-A02		A03-A03	monomer	A01-D13
	A12-W10C		B04-C02A3	polymer	A04-G02+
	B12-P10	Esters, inorganic, cellulose	C04-C02A3	Ether, mono-unsaturated	
	C12-P10		A03-A03	aliphatic, monomer	A01-D11
	C14-T01B		B04-C02A3	(co)polymers	A04-F11
Erythrocytes	B04-B04D1	Estr - see also Oestr-		Etherification/ etherified	
	B04-F04	1,4-Estradienes	B01-B03	polymers	A10-E08+
	C04-B04D1		C01-B03	(cyclo)aliphatic ethers of	
	C04-F04	Estradienes (two ring "A"		polyoxyethylene/ propylene	A10-E08A
bound to antibody or		double bonds other than 1,4)	B01-B04	other etherified polymers	A10-E08C
antigen	B11-C07A6		C01-B04	other ethers of polyoxy	
Erythromycin	B02-E	Estradiols	B01-A02	alkylene glycol	A10-E08B
	C02-E		C01-A02	Etherified polyethylene	
Erythropoietics	B12-H01	Estranes (saturated ring "A")	B01-D02	glycol using nonyl phenol	A10-E08B
	B14-F03		C01-D02	Ethers (or thioethers)	B10-H01
	C12-H01	1,2,5(10)-Estratrienes			C10-H01
	C14-F03	(excluding estrones and	B01-A03	Ethers, allyl (monoolefinic)	E10-H01
Erythropoietin (Epo)	B04-H07	estradiols)	C01-A03	(co)polymers	A04-F11
	C04-H07	Estrones	B01-A01	monomer	A01-D11
Escherichia	B04-F10A3		C01-A01	Ethers, cellulose	A03-A04+
	C04-F10A3	Etching metal	M14-A		B04-C02A2
Essential oils	D10-A05A	chemical processes	M14-A02		C04-C02A2
Ester - see also under		etching media, liquid or		Ethers, cyclic condensant	A01-E08
appropriate acid		gaseous	M14-A03	Ethers, diallyl	
Ester interchange		ion beam processes	M14-A04	(co)polymers	A04-B
of (meth)acrylic acid,		laser processes	M14-A04	monomer	A01-C04
monoolefinic (co)polymers	A04-F06	mechanical processes	M14-A01	Ethers, F containing	
polycondensation by	A10-D05	Etching metal, electrolytic	M11-H	monoolefinic, (co)polymers	A04-E10C
		apparatus	M11-H05	Ethers, vinyl	

(co)polymers	A04-F11	polymer production	A04-G02A	copolymers	A04-G06+
monomer	A01-D11	polymer treatment	A04-G02D	Ethylene-propylene-(di)cyclopentadiene copolymers	A04-G06+
Ethoxylated sulphate detergents	D11-A01F2	Ethylene copolymers (also A4-G6+; A4-G7+)	A04-G08+	Ethylene-propylene-1,4-hexadiene	A04-G06+
Ethoxylene resins	A05-A+	Ethylene diacrylate (co)polymers	A04-B09	Ethylene-propylene-diene rubber	A04-G06+
Ethyl acetate solvent	E10-G02	monomer	A01-C01	Ethylene-propylene-diene terpolymer	A04-G06+
Ethyl acrylate (co)polymers	E10-G02	Ethylene diamine condensant	A01-E05	Ethylene-propylene-ethylidene norbornene	A04-G06+
monomer	A04-F06+	Ethylene dimethacrylate (co)polymers	A04-B09	Ethylene-tetrafluoro-ethylene copolymers	A04-E09
Ethyl acrylate-ethylene copolymers	A01-D10B	crosslinker	A08-C07		A04-G08
	A04-G08A	monomer	A01-C01	Ethylene-vinyl acetate copolymer (EVA)	A04-G07
Ethyl acrylate-2-chloroethyl vinyl ether copolymers	A04-E	Ethylene glycol bis(allyl carbonate) (co)polymers	A04-B09	Ethylene-vinyl acetate copolymer adhesive/binder	A12-A05B2
	A04-F06+	Ethylene glycol condensant	A01-E14		G03-B02D2
Ethyl alcohol derived acrylic esters		Ethylene glycol-terephthalic polyesters	A05-E04+	Ethylenic hydrocarbon	E10-J02C
(co)polymers	A04-F06+	Ethylene glycol-terephthalic-isophthalic polyesters	A05-E04+	2-Ethylhexyl acrylate (co)polymers	A04-F06+
monomer	A01-D10B		A05-E05	monomer	A01-D10B
Ethyl alpha-chloroacrylate (co)polymers	A04-E	Ethylene homopolymers	A04-G02+	2-Ethylhexyl alcohol derived acrylic esters (co)polymers	A04-F06+
monomer	A01-D10	Ethylene imine condensant	A01-E05	monomer	A01-D10B
Ethyl cellulose	A03-A04+	polymer	A05-J07	2-Ethylhexyl cyanoacrylate (co)polymers	A04-E
	B04-C02A2	polymerisation catalyst	A02-A+	monomer	A01-D10
	C04-C02A2	Ethylene oxide disinfectant (not of food or air)	E07-A03A	2-Ethylhexyl methacrylate (co)polymers	A04-D
Ethyl cyanoacrylate (co)polymers	A04-D	monomer	D09-A01C	monomer	A01-D04
monomer	A01-D04	polymer	A01-E07		A01-D10
Ethyl hydroxypropyl cellulose	A03-A04+	polymer, polymerisation catalyst	A05-H03	2-Ethylhexyl methacrylate (co)polymers	A04-F06+
	B04-C02A2	polymer, preparation, compositions	A02-A+	monomer	A01-D10B
Ethyl methacrylate (co)polymers	E10-G02	Ethylene oxide-propylene oxide copolymer based polyurethane	A05-H03A		
monomer	A04-F06+		A05-G03	Ethylidene norbornene (co)polymers	A04-B
Ethyl methyl ketone condensant	A01-D10B	Ethylene oxide-propylene oxide copolymers	A05-H03+	monomer	A01-C05
Ethyl vinyl ether (co)polymers	A04-F11		A05-H04	Ethyne (co)polymers	E10-J01
condensants	A01-D11	Ethylene polymer adhesives	A04-G02E1	monomer	A04-A02
Ethylene	E10-J02C		A12-A05B2		A01-B02
copolymer with olefin-1	A04-G06+	Ethylene polymers including oligomers	G03-B02D3	Euphorics	B12-C10
copolymer with vinyl acetate	A04-G07	Ethylene urea condensant	A01-E03		B14-J01A
copolymer, other	A04-G08+	Ethylene urea-formaldehyde resin	A05-B04		C12-C10
copolymers general	A04-G11	Ethylene-butene-1 copolymer (LLDPE)	A04-G06+		C14-J01A
monomer	A01-D13	Ethylene-chlorotri-fluoroethylene binary copolymer	A04-E10D	Eupnea treatment	B12-K06
polymer applications	A04-G02E+		A04-G08		B14-K01
polymer applications, coatings, adhesives and binders, textiles	A04-G02E1	Ethylene-ethyl acrylate copolymers	A04-F06+		C12-K06
polymer applications, film, packaging	A04-G02E2		A04-G08A	Europium compounds	C14-K01
polymer applications, photographic, household, office, medical, dental, cosmetic, veterinary	A04-G02E3	Ethylene-methacrylic acid copolymers	A04-F04+		B05-A03B
polymer compounding	A04-G02B		A04-G08A	catalysts inorganic	C05-A03B
polymer fabrication	A04-G02C	Ethylene-olefin-1 copolymers	A04-G06+	organic	N03-A02B
		Ethylene-propylene binary		EVA copolymer	E34-E02B
				Evaporation	E05-P
					A04-G07
					A10-G+
					A11-A02+

	J01-A01	ANFO	K04-E01A1	by wet method	M24-A01
of sugar solutions	D06-D	Explosive charges	K03-A	from scrap, slag, flue	
Evaporative spinning	A11-B15C	Explosive forming (metal)	M21-D	dust etc.	M24-A07
	F01-C08A	Explosive welding	M23-E02	using a blast furnace	M24-A02
Exhaust systems for engines	A12-T04C	Explosives	A12-T03A	Extraction of natural polymers	
Expanded clay, preparation of	L02-B05		K04-A	e.g. from trees	A10-A
Expanded phenoplasts	A05-C+		K04-E	Extraction of natural rubber	A10-A
	A12-S03	additives	K04-G	Extraction of non-ferrous metal by dry reduction of ore	M25-C
Expanded polymers/plastics		azide	K04-E03	apparatus	M25-C01
compositions, foam		based on chlorate oxidiser	K04-E01B	methods	M25-C02
forming process, general	A12-S04A	based on chlorates	K04-A02	Extraction of non-ferrous metal compounds from ore	
compositions, foam		based on nitrate oxidiser	K04-E01A	by wet method	M25-B
forming process, general		based on nitrates	K04-A01	Extraction of non-ferrous metal from scrap, flue dust, slag	M25-E
general processes	A12-S04A1	based on organic nitro compound(s)	K04-E02	Extraction, water treatment by	D04-A01N
compositions, foam		based on perchlorate oxidiser	K04-E01B	Extreme pressure additives for lubricants	A12-W02A
forming process, general,		density control agents	K04-G	Extruded nets	A12-P07
other polymer compositions (excluding S01-S03)	A12-S04A3	detection	K04-F03		F02-E03
compositions, foam forming process, general, polyolefin		disposal	K04-F02	Extruder	
compositions	A12-S04A2	emulsion	K04-E01	bulk polymerisation in	A10-B02
compositions, foam		inorganic	K04-E03		A10-C03C
forming process, general,		lead azide	K04-E03		A10-D+
polyolefin foaming process	A12-S04A2	lead styphnate	K04-E03	design	A11-B07C
construction material,		manufacture	K04-F01	equipment control	A09-D02
sound and thermal		manufacture and treatment	K04-A04	mixing	A11-A03A
insulation	A12-S04B		K04-F	safety in	A09-D02
fabrics, furniture,		nuclear	K08-D	Extruding to small particles	A11-A04
upholstery, furnishings,		organometallic	K04-E03	Extrusion	A11-B07+
toys, sports goods	A12-S04D	sensitisers	K04-G	blow moulding	A11-B07+
integral skin foams,		slurry	K04-E01		A11-B10
floats cables, electrical		sprengel type	K04-A03	blowing of film	A11-B07A
insulation	A12-S04E	styphnate	K04-E03		A12-S06A
packaging, containers,		water gel	K04-E01	coating	A11-B05B2
agriculture/ horticulture	A12-S04C	Exposure to radiation in forming photographic image	G06-G18	crosslinking	A11-C02C
polystyrenes	A12-S01+	Extended quinone dyes (general)	E22-E	flash	F01-C07B
polystyrenes, foam		Extenders (coal tar fractions, oils, waxes)	A08-P08	foaming	A11-B06B
composition or expanding process	A12-S01A	Extracting coffee	D03-D01B	FRP (fibre reinforced plastics) production	A11-B09C
polystyrenes, foam-in-place	A12-S02A	Extracting tea	D03-D02B	general associated process	A11-B07D
polystyrenes, general		Extraction (processes)	B11-B	general extruder design	A11-B07C
foaming process	A12-S02C		C11-B	haul-off processes	A11-B07D
polystyrenes, other			E11-Q	mixing	A11-A03+
specific polyurethane	A12-S02E	from natural materials	E11-Q01B	of ceramic paste	L02-A03
polystyrenes,		Other separations	B11-B03	of film	A11-B07A
polyetherurethanes	A12-S02D		C11-B03	of food	D03-K06
polystyrenes, polyurethanes	A12-S02+	Removal processes	B11-B04	of sheet	A11-B07A
thermoset	A12-S03		C11-B04	of tube	A11-B07B
Expanding agent	A08-B+	Separation of stereoisomers		pelletting	A11-A04
Expanding of polymers	A11-B06+	by a biological method	B11-B01	polymer re-use by	A11-C03+
Expectorant	B12-K05		C11-B01	recovery of polymer scrap by	A11-C03+
	B14-K01E	Separation of stereoisomers		regulators	H08-E07
	C12-K05	by other method	B11-B02	spinning	A11-B15+
	C14-K01E		C11-B02	Extrusion in metallurgy	
Experimental genomics	B11-C08F2	Extraction of ferrous metal	M24-A	auxiliary processes	M21-B02B
	C11-C08F2	by direct reduction,		control devices	M21-B02D
Experimental proteomics	B11-C08F4	sponge iron or liquid			
	C11-C08F4	steel production	M24-A03		
Exploration for oil and gas	H01-A				
Explosive					

equipment	M21-B02C
of metal sheet, wire, rod, tube or profile	M21-B02
processes	M21-B02A
Eye disorder treatment	B12-L04 B14-N03 C12-L04 C14-N03
Eyelashes, false	A12-V04 D08-B01
Eye makeup	D08-B01 D08-B01A
Eyeshields	A12-C02

## F

Fabric	
melt blowing	A11-C05A1
Fabrics	
sizes	A12-G04
Fabrics - see also Fibres and Textiles	
ageing resistance	
improvements	F03-C07
analysis	F03-K02
apparatus for chemical treatment	F03-C01
biological repellents, non-resinous	A12-S05R F03-C02B
biological repellents, resinous	A12-G F03-C02B
bleaching	A11-A01+ F03-B01
calendering	A11-B03 F03-A01
chemical treatment	A12-G+ A12-S05+ F03-C+
crease resistant finish - see under Fibres	
crepe	F02-G02
cutting	F03-K03
decorating	F03-H
deodorising	F03-C09
dye receptiveness	
improvement	A08-M01A F03-C06
dyeing other substrates	A12-S05P F03-F+
dyeing polyester, polyamide or cellulosic	A12-S05N F03-F+
flame retardant finish - see under Fibres	
foam use in	A12-S04D
foamback (clothing)	A12-C01
general	A12-G+ A12-S05+
glass, polymer coating on	A12-B05
handling	F03-K01
identification	F03-K01
inspection	F03-K02
joining	F03-K
knitted	A12-S05H F02-B02
laundering	F03-J+
laying	F03-K01
lubricant finish	A12-S05S D11-B15 F03-C05
marketing	F03-K

mechanical treatment	A12-S05U F03-A+
mercerising	F03-B
non-woven	A12-S05G F02-C01
non-woven pile fabrics	F02-C01A
non-woven self-bonded	F02-C01B1
non-woven, polymer- bonded	A12-B02B
odorising	F03-C09
of polymer fibre	A12-S05+ F02+
physical characteristics of pile	F02-G01 F02-G03
pile, net or gauze-like	A12-S05J
pill resistant - see under Fibres	
polymer coating on glass	A12-B05
polymer coating on other	A12-B02 A12-G+
printing	A11-C04A A12-S05Q F03-F+
processes	A11-C05+
processing aid	F03-C05
production weaving	A11-C05A F02-A04+
production, knitting	A11-C05A F02-B03+
products manufacturing	F04-F+
recycling	F03-E02
reinforced plastics	A12-S08F
reinforced solid material design for	F03-D04
repellent or retardant, general	A12-G+ A12-S05R F03-C02+
scouring	F03-B
setting	F03-A02
severing	F03-K03
shearing	F03-A
softeners	D11-B15
softeners and detergents	D11-D07C2 F03-C05
stretch	F02-G04
synthetic production	A11-C05A F02+
testing	F03-K02
treatment - see above	
under chemical or mechanical	
waterproofing - see under Fibres	
winding up	F03-K01
woven	A12-S05F F02-A03+
Face wash	D08-B09A2
Liquid	D08-B09A2A
Solid	D08-B09A2B

Factors		Fancy yarns	A12-S05E	Fermentation processes	B11-A
blood	B04-B04D3		F01-E		C11-A
	C04-B04D3	Farming	A12-W04+		D05-A
blood (general)	B04-H01	see also CPI Section 'C'			D05-B
	C04-H01	Fascia, vehicle	A12-T04B		D05-C
clotting	B04-H19	Fasciola treatment	B12-B06		E11-M
	C04-H19		B14-B03		J09-C01B
EGF	B04-H06A		C12-B06	using enzymes	B11-A02
	C04-H06A		C14-B03		C11-A02
factor IV (calcium)	B05-A01B	Fast dyes for polymers	F03-F19	using dehydrogenases, reductases	B11-A02A4
	C05-A01B	Fast fission reactors	K05-A01		C11-A02A4
factors I to III	B04-H19	Fasteners, fastenings		using DNA/RNA polymerases	B11-A02B1
	C04-H19	clothing	A12-C03		C11-A02B1
factors V to XIII	B04-H19		F04-C04		C11-A02C1
	C04-H19	manufacture	F04-F01	using esterases	B11-A02C1
FGF	B04-H06G		M21-G		C11-A02C1
	C04-H06G	others (mechanical engineering)	A12-H12	using glycosidases	B11-A02C2
growth, general and other	B04-H06	Fatigue combatting	B12-C06		C11-A02C2
	C04-H06		B14-J01A	using hydrolases	B11-A02C
HGF	B04-H06K		C12-C06		C11-A02C
	C04-H06K		C14-J01A	using isomerases	B11-A02E
IGF	B04-H06H	Fats	B04-B01B		C11-A02E
	C04-H06H		C04-B01B	using kinases	B11-A02B3
LIF	B04-H09		D03-C		C11-A02B3
	C04-H09		D10-A	using ligases	B11-A02F
MDGF	B04-H06C		D10-B		C11-A02F
	C04-H06C	cooking (solid)	D03-C02	using lipoygenases	B11-A02A5
metabolic	B04-B04J	spreads	D03-C02		C11-A02A5
	C04-B04J	Fatty acids	D10-B	using lyases	B11-A02D
	C04-H01	Monounsaturated fatty acid	B10-C04E3		C11-A02D
NGF	B04-H06D		C10-C04E3	using oxidases	B11-A02A1
	C04-H06D	Polyunsaturated fatty acid	B10-C04E2		C11-A02A1
PAF	B04-H14		C10-C04E2	using oxidoreductases	B11-A02A
	C04-H14	Saturated fatty acid	B10-C04E5		C11-A02A
PDGF	B04-H06B		C10-C04E5	using oxygenases	B11-A02A3
	C04-H06B	Feathers (or extract)	B04-B04E		C11-A02A3
PGF	B04-H06J		C04-B04E	using peroxidases	B11-A02A2
	C04-H06J	Febrifuge	B12-D08		C11-A02A2
SCF	B04-H16		B14-C04	using proteases/peptide hydrolases	B11-A02C3
	C04-H16		C12-D08		C11-A02C3
TGF	B04-H06F		C14-C04	using reverse transcriptases	B11-A02B2
	C04-H06F	Feed devices for knitting machines	F02-B04		C11-A02B2
TNF	B04-H08	Feed of workpiece to sewing machine	F02-F01B2	using transferases	B11-A02B
	C04-H08	Feeding of slivers	F01-F04		C11-A02B
Faeces	B04-B04B	Feeding polymer to processing	A11-A	using microorganisms	B11-A01
	B04-B04B2	Felt pens	A12-D05B		C11-A01
	C04-B04B	Felt, polymer coating on	A12-B02+	using bacteria	B11-A01A
	C04-B04B2	Felting to give non-woven fabric	F02-C02C		C11-A01A
Falling dart impact strength	A09-A05A	Felts	A12-S05G	using fungi	B11-A01C
Falmerene	B05-U02		F02-C01		C11-A01C
	E05-U02	FEP	A04-E09	using viruses	B11-A01B
False twisted fibres	A12-S05C		A04-E10D		C11-A01B
	F01-E04	Fermentation apparatus	D05-A03	Fermentation tests	B11-C08E1
	F01-E01A				C11-C08E1
conjugate	F01-E01A			Fermentation vessels	D05-A03
False twisting of fibres				automated	D05-A03B
crimping	A11-B02D			mixing devices	D05-A03B
	F01-H04B			Fermented foods	D05-A04D
non-crimping	F01-H01				
Fan blades	A12-H				
Fancy goods	A12-F				



Fermented solution, distillation of	D05-D	metal, by casting method	M22-G03K	glass	L01-F03
Fermenting tea	D03-D02D	metal, by powder		glass, formation, equipment for	L01-F03C
Fermium compounds	B05-A04	metallurgy	M22-H03D	glass, formation, nozzles for	L01-F03B
inorganic	C05-A04	metal, ferrous	M24-D06	glass, post-forming of	L01-F03E
organic	E35-R	metal, non-ferrous	M29-D	glass, roving formation	L01-F03D
Ferns	E05-Q	plastics production using moulds/extrusion	A11-B09C	glass, surface treatment	L01-F03A
	B04-A08B	polymers	A12-S08+	grafting of monomer(s) on gypsum	A10-C03A
	C04-A08B	solid materials, fabric designed for	F03-D04	heat setting	L02-C05
Ferric chloride catalyst for polymerisation	A02-A04	Fibreballs	F01-E09A		A11-B02C
	A02-A07+	Fibreboard	A12-A04B	hollow	F01-H05
Ferric, ferrous compounds - see also Iron			F05-A07		A12-S05A
Ferricyanides (inorganic)	B05-A03A	production	A11-B09B		F01-E03
	C05-A03A		F05-A07	insect repellent, non-resinous	A12-S05R
	E32-B	Fibrefill	F01-E09A		F03-C02B
Ferrite magnetic compositions		Fibres		insect repellent, resinous	A12-G
barium containing	L03-B02B1	general	A12-S05X		F03-C02B
non-barium containing	L03-B02B2	optical, coatings	G02-A05H	mechanical finishing (general)	F01-H+
Ferrocyanides (inorganic)	B05-A03A	sizes	A12-G04	metal production	M22-H01
	C05-A03A	Fibres - see also Fabrics and Textiles	A12-S05+	mineral, mechanical treatment	F01-A03
	E32-B	animal, chemical treatment	F01-B01	mineral, preparation	L02-B08
Ferroelastic		animal, mechanical treatment	F01-A01	mineral, products	L02-D11
ceramics	L02-G07B	carbon	L02-H04A	monofilaments	A12-S05E
materials	L02-G09B	ceramic, manufacture	L02-B08		F01-E05
Ferroelectric		ceramic, metal reinforced		non-circular	A12-S05A
ceramics	L02-G07B	with	L02-J01D		F01-E02
materials	L03-G09B	coatings on	A12-B02+	non-iron finish - see crease resistant finish	
Ferrous alloys	M27-A		A12-G+	oil proofing, non-resinous	A12-S05R
cast iron alloys	M27-A03	composition (general)	A12-S05K		F03-C02
master alloys	M27-A02	conjugate	A12-S05B	oil proofing, resinous	A12-G03
production	M27-A01	conjugate (general)	F01-E01+		F03-C02
steel alloys	M27-A04	crease resistant finish, non-resinous	A12-S05R	optical	A12-L03A
treatment	M27-B		F03-C04		F04-G01
treatment, cast iron alloys	M27-B03	crease resistant finish, resinous	A12-G02	physical characteristics, others	F01-E+
treatment, production	M27-B01		F03-C04	pill resistant - see crease resistant finish	
treatment, steel alloys	M27-B04	crimped	A12-S05C	polymer coatings on	A12-B02+
Ferrous metals			F01-E04	polymeric in paper	A12-W06+
changing physical properties	M24-D	crimped conjugate	F01-E01A	processes (textile)	A11-C05+
control/testing	M24-E	crimping (general)	A11-B02D	production (general)	A12-S05L
Fertiliser			F01-H04+	products other than in fabric form	F04-G+
containing polymers	A12-W04B	elastic (spandex)	A12-S05D	reactive dyes for polymers	A08-E03+
general	C14-T	false-twisting	A11-B02D		F03-F19
inorganic	C12-N09		F01-H01	shrink resistant finish - see crease resistant finish	
	C14-T03	fancy yarns	F01-H04B	soil proofing - see oil proofing above	
other	C12-N10	finishing	A12-S05E	staple	A12-S05E
	C14-T04	flame retardant finish, non-resinous	F01-H06+	tapered	A12-S05A
trace element	C14-T05			testing	F01-E02
Fertiliser mixtures containing		flame retardant finish, resinous	A12-G01	textured	A12-S05C
P-acid (salt) and N compounds	C05-B02A4		F03-C03+		F01-E04
P-acid (salt), and no N	C05-B02A5	forming polyesters	A05-E+		
Fettling castings	M22-G03H	general	A12-S05+		
Fever inducing	B14-C05		F01+		
	C14-C05				
Fibre reinforced					
material, adhesion					
improving agents for	A08-M01+				
	F01-H06B				

vegetable, chemical treatment	F01-B02	metal	A08-R05 G01-A12	Filtering	
vegetable, mechanical treatment	F01-A02	other (not specified elsewhere)	A08-R	devices for liquids	J01-F02D
water proofing, non-resinous	A12-S05R F03-C02A	polymeric reinforcing agents	A08-R08+ A08-R+	engine exhaust gases	H06-C04A
water proofing, resinous	A12-G03 F01-C05 F03-C02A	silica	A08-R06A G01-A06	for removal of specific substances	J01-F04X
Fibrids	F01-J01	silicates	A08-R06B G01-A06	materials	J01-H02
production	F01-C07C	treatment of whiskers	G01-B+ A08-R09	molten metal	M22-G03G
Fibrillating	A11-B02+ F01-C05	Filling bakery products after cooking	D01-A06	molten metal, iron or steel (or alloy)	M24-A05 M24-C
Fibrils	A12-S05+ F01-E+	Filling glass containers	L01-J03	molten metal, non-ferrous (or alloy)	M25-F M25-J
Fibrin	B04-H19 C04-H19	Fillings, dental	A12-V02B D08-A01	water	D04-A01E D04-A01F
Fibrinase	B04-H19 C04-H19	Film	A12-S06+ A12-L01	Filters	A12-H04 F04-E05+
Fibrinogen	B04-H19 C04-H19	base, photographic carrier for adhesives	G03-B04 A11-B04C	gas	J01-G03
Fibrinogenase	B04-H19	casting process	A11-B04C	waste gas	J01-G03B
Fibrinoginase	C04-H19	containing polymer coatings	A12-B07A A11-B07A	air inflow	J01-G03C
Fibrinolysin	B04-B02C3 B04-H19 C04-B02C3	extrusion of formation by bubble methods	A11-B07A A12-S06A	gravity	J01-F02A
Fibrinolytics	C04-H19 B12-H02 B14-F04 C12-H02 C14-F04	forming (i.e. shaping of) forming (Langmuir-Blodgett)	A11-B08+ J04-X02	LCD	L03-G05B7A
Fibrous cellulosic suspension, production of articles from	F05-A07	forming polyesters	A05-E+	liquid, with mobile element	J01-F02C
Fibrous fillers, reinforcing agents	A08-R+	heat sealing/welding involving	A11-C01A1 A12-S06B	micro	J01-C04
Fibrous webs, bonding to give non-woven fabrics	F02-C02B+	laminates, polymer on polymer	A12-S06C1	nano	J01-C04
Field effect transistors	L04-E01A	laminating	A11-B09A2 A11-B09D	optical	A12-L03D
junction type (JFET)	L04-E01A1	laminating, by extrusion	A11-B07A	photographic regeneration	G06-A02 J01-H01
metal oxide, semiconductor type (MOSFET)	L04-E01B1	lithographic	G06-D02	ultra	J01-G03A A12-W11A J01-F02A J01-C04
Filament winding for FRP	A11-B09+	non-cellulosic polymeric, in paper making	A12-W06A	Filtration	
Filaments of polymers	A12-S05+ F01-E+	of polymer blends	A12-S06D	in tests	B11-C08D3 C11-C08D3
Filaments, artificial		orientation	A11-B02A	of gases	J01-G03
associated process in production	F01-C+	packaging	A12-P01A	of liquids	J01-F02
by spinning	F01-C+	photographic	A12-L01	of water for purification	D04-A01E D04-A01F D04-B10
Filariasis treatment	B12-B02 C12-B02	polymeric	A12-S06+	purification of polymers	A10-G01+
Fillers		polymeric in paper	A12-W06+	separation in petroleum processing	H02-D04
asbestos	A08-R02	slitting or splitting to fibres	A11-B02 F01-C05	Fine particle structure of polymers	A12-S09+
carbon	A08-R03+ G01-A11	treatment	A12-S06B	Finely divided solid surfactants for polymers	A08-S+
cellulosic	A08-R07	tubular, production	A11-B07A A12-S06A	Finger nails, false	A12-V04 D08-B01
general	A08-R01	welding	A11-C01A1 A12-S06B	Finishing of	
glass	A08-R04	X-ray	G06-D01	fibres, yarns	F01-H06+
inorganic	A08-R+ G01-A+	Films of		polymers	A11-C+
		polyamide	A05-F01E3	Finned tube production	M21-C
		polyester	A05-E01D3	Fire detectors, alarms	A12-R02
		polyethylene	A04-G02E2	Fire extinguishing compositions	A12-W12 K01-A
		polypropylene	A04-G03E1	Fire extinguishing of oil wells	
		saturated polyester	A05-E01D3	by capping	H01-G02
				using explosives	H01-G01
				Fire resistant boards, blocks, blankets	L02-D15A

Fire-fighting compositions	A12-W12 K01-A	Fixing, photographic black and white silver halide	G06-G02	Flatulence treatment	B12-J03 B14-E03 C12-J03 C14-E03
Fire-resistant walls and windows	L02-D15	colour	G06-G12	Flavouring agents	B12-J01 B14-E11 C12-J01 C14-E11
Fire-retardants - see fireproofers above		Fixtures, building	A12-R02+	chemical	D03-H01B
Fireclay refractories	L02-E02	Flaking, detergents	D11-D03	special form	D03-H01D
Fired clay, polymer coated on	A12-B08	Flame (plasma) spraying refractories and ceramics	L02-A06	unknown structure	D03-H01C
Firelighters	H09-F	Flame cutting and scarfing	M23-C	Flaw, detection compositions	G04-B09
Fireproof		Flame laminating of fabrics	F03-D02	Flexible foams	A12-S+
coating compositions	G02-A05D	Flame polishing	A11-C04	Flexible sheet for thermal and acoustic insulation	A12-R06 F04-E06 L02-D15C
compositions	A12-G01 A12-W12 F03-C03+ G04-B06	Flame proofers	A08-F+	Flexographic printing plates	A12-W07C G05-A02
Fireproofers	A08-F+	Flame proofing of wood	F05-B	Flints	K04-B02
for fabrics, non-resinous	A12-S05R	Flame retardance of polymers	A09-A01	Float glass baths	L01-D03
for fabrics, resinous	A12-G01 F03-C03+	Flame retardants	A08-F+	bath chambers	L01-D03A
Fireworks	K04-C	additives	A08-F+	glass treatment in baths	L01-D03B
Firing ceramics and refractories	L02-A04	aluminium hydroxide	A08-F05	Float glass production	L01-D03
Fish		antimony containing	A08-F02	Float glass thickness control	L01-D03C
animal feeds from	D03-G05	general	A08-F01	Floats, foam use in	A12-S04E
cells	B04-F07D C04-F07D	halogen containing	A08-F04+	Flocculants	
degutting	D02-A02	halogen containing, non- polymeric (cyclo)aliphatic	A08-F04C	acrylic	A12-M01
extracts	D02-A03A	halogen containing, non- polymeric aromatic/ heterocyclic	A08-F04B	for pollution control	A12-W11E D04-A01B D04-B10
flakes	D02-A03A	halogen containing,		polymeric	A12-M+
meal	D02-A03A	polymeric	A08-F04A	Flocculation of	
pastes	D02-A03A	others (specific)	A08-F	polymers	A10-G01B
processing	D02-A	phosphorus containing	A08-F03	sewage and water	D04-A01B D04-B09
products	D02-A03	textile finishes, non- resinous	A12-S05R F03-C03+	Flocking, fibre	F03-D03
products, preservation	D03-A02	textile finishes, resinous	A12-G01 F03-C03+	polymer coating by	A11-B05B
repellents	B12-N06 B14-B13 C12-N06 C14-B13	Flame spraying		Flood lighting	A12-E11
residues removal from		coating with polymer by	A11-B05B1	Flooding, well	A12-W10B H01-D06 H01-D06E H01-D06A H01-D06C H01-D06D H01-D06B
waste water	D04-B04	metal	M13-C	alkaline	
roe	D02-A03A	Flame treatment of polymer surfaces	A11-C04	brine	H01-D06E
waste, protein recovery from	D03-F04	Flame welding	M23-B	carbon dioxide	H01-D06A
whole, processing	D02-A02	torches, burners, gas supply	M23-B01	polymer	H01-D06C
Fishing	A12-F01	Flame-proofing fabrics	A12-G01 A12-S05R F03-C03+	steam	H01-D06D H01-D06B
lines	A12-F01	Flammability properties	A09-A01	Floor coverings (see also carpets)	F04-B02
nets	A12-P07 A12-W04	Flanges of pipes	A12-H02C	Flooring	A12-R03 L02-D09
rods	A12-F01	Flanging sheet metal	M21-E01	Floppy discs	A12-E08A2
Fishing tools (drilling equipment)	H01-B07	Flash		Floss, dental	A12-V04B D08-B08E
Fittings		spinning	A11-C05C1	Flotation	
building	A12-R02+	Flash evaporation	A10-G01+	extraction in metallurgy	M25-A01B
for hoses	A12-H02C	Flash extrusion of e.g. plexifilaments	F01-C07B	separation of solids	J01-K03
for pipes	A12-H02C	Flat glass formation	L01-D	water treatment	D04-A01L D04-B09
for tubes	A12-H02C	Flat platens, pressing between	A11-B13	Flour	D01-B D01-B01
Fixed enzyme processes, general	D05-A01C	Flattening agents	A08-E A08-E02 A08-E03C	additives	
Fixing biological substances to a carrier	A12-W11L D05-H10	inorganic			
Fixing devices for dentures	D08-A03	organic			
Fixing processor rollers, electrophotographic	G06-G08C	Flattening monofilaments by calendering	A11-B03		

Flow		Fluorescent tracers bound to antibody or antigen		Foam	
mixers	J02-A02A		B11-C07A5		A12-S+
promoters	A08-M06		C11-C07A5		B12-M03
Flowers	B04-A07D5	Fluoride, vinyl			C12-M03
artificial	C04-A07D5	(co)polymers	A04-E10A	coating process	A11-B05E
extracts	A12-F	monomer	A01-D12	coatings on polymer	A12-B07B
Flowers and flower parts excluding pollen	B04-A10C	Fluoride, vinylidene		compositions for dyeing/	
	C04-A10C	(co)polymers	A04-E10B	printing fibres	F03-F26
		monomer	A01-D12	in-place polyurethane	A12-S02A
		Fluorides	B05-C	inhibitors, for detergents	D11-B08
			L02-H	inhibitors, for polymer	A08-S03
				making equipment/process	A11-B06+
Flue dust metal extraction		Fluorinated polymers	A10-E04A	polymeric	A12-S+
ferrous	M24-A07A	ethylene propylene		polymeric, in paper making	A12-W06+
non-ferrous	M25-E	copolymer	A04-E09	polymeric, polyolefins	A12-S04A2
Fluid conduction, tubes for	A12-H02+		A04-E10D	polymeric, polystyrene	A12-S01+
Fluid detergent compositions	D11-D07	Fluorination	A10-E04A	polymeric, polyurethane	A12-S02+
dishwashing detergents	D11-D07D	Fluorine catalysts	N04-D	promoter for detergents	D11-B08
laundry detergents with		Fluorine containing		stabilisers (surfactants)	
bleach (stain removers)	D11-D07C3	ether, monoolefinic		for polymers	A08-A07
laundry detergents		(co)polymers	A04-E10C	thermosets	A12-S03
with special use	D11-D07C	inorganic compounds,		Foamback	
Light duty liquid		removal from water	D04-B07E	carpets	A12-D02
laundry detergents	D11-D07B	monoolefinic (co)polymers	A04-E10+	fabrics and garments	A12-C01
soap type (hand washing compositions)	D11-D07F	resin fibres, chemical		Foamed	
Fluid jets, entangling non - woven fabric	F02-C02+	features of	F01-D10	adhesives, use of	A11-C01+
Fluidised bed		Fluorine or derivatives - see also Halogen or derivatives			G03-B03
coating by	A11-B05A	Fluoro - see also Halo		clay	L02-B05
heat treatment of iron		Fluoroacrylates		ferrous alloy	M24-D06
and steel	M24-D02C	(co)polymers	A04-E10D	fibres	F01-E
reactor	J04-X03A	monomer	A01-D10	glass, manufacture	L01-F07
Fluidising additives for concrete	L02-D14E		A01-D12	metal (general)	
Fluids, functional	A12-W02+	Fluorocarbon fibres, chemical features	F01-D10	production	M22-G03K
	H08-D05	Fluorocarbon polymer	A04-E+	non-ferrous alloy	M29-D
Fluorene	B08-D03	membranes for		polymers - see also	
	C08-D03	electrolysis	J03-B03A	Expanded polymers	A12-S+
	E08-D03	Fluorohydrogenated polymers	A10-E04	silicate insulating material	L02-D15
Fluorescence tests	B11-C07B3	Fluorohydrogenation	A10-E04	Foaming agents	A08-B+
	C11-C07B3	Fluoroplasts	A04-E+	Foaming polymers	
	J04-C02C	Fluorosilicates	E31-P04	general	A11-B06
Fluorescent brighteners	D11-B01	Fluorostyrenes		involving extrusion	A11-B06B
	E24-A	(co)polymers	A04-C	involving moulding	A11-B06C
	E24-A04	monomer	A01-D02	involving other specific	
benzoxazole type	E24-A02	Fluorosulphonated polymers	A10-E12B	methods	A11-B06D
	E24-A04B	Fluorosulphonation	A10-E12B	to form specific goods	A11-B06A
coumarin type	E24-A02	Fluxes (polymer use)	A12-W12F	with crosslinking	A11-C02D
	E24-A04B	Fluxes for		Fodder	A12-W04
other types (specific)	E24-A03	iron and steel melt			D03-G
	E24-A04C	treatment	M24-C07	Foetus extracts	B04-B04H
	E24-A01	ironmaking	M24-B01		C04-B04H
	E24-A04A	non-ferrous metal		Foils	
Fluorescent ceramic oxides	L02-G10A	production	M25-C	carriers for adhesives	G03-B04
Fluorescent compositions for screens	L03-C02B	removing	D11-D01B2	metal, production	M21-A03B
Fluorescent dyes	E24-A	soldering	M23-A02	polymer	A12-S06+
	E24-A05	steelmaking	M24-B02	Foliar application	C12-M13
		welding	M23-F	Follicle stimulating hormones (FSH)	B04-B02D4
Fluorescent semiconductor compositions	L03-G	Flyer spinning	F01-G02		B04-J05H
	L03-G09C	Flywheels	A12-H		C04-B02D4
					C04-J05H

Food	A12-W09	Foundry cores, moulds	A12-A02	for plants	B12-P10
	D03-H	Foundry moulding	M22-A		C12-P10
	D03-J	mould material handling/			C14-T01C
	D03-K	dressing	M22-B	Froth flotation (extraction	
cellulose ether use in	A03-A04A1	moulding compositions	M22-A01	metallurgy)	M24-A01
coatings on	A12-B	moulding machines	M22-E		M25-A01
colorant (natural)	D03-H01E1	moulds/cores	M22-D	FRP	A12-S08+
colorant (synthetic)	D03-H01E2	patterns	M22-C	Fruit	B04-A09K
defrosting	D03-K12	Fountain pens	A12-D05B		C04-A09K
high calorie	D03-H01T4	Fourdrinier wires	F04-E05A	Fruit drop treatment	B12-P03
nuclear applications to	K09-D	Fractional distillation	A10-C01+		C12-P03
packaging	A12-P+		B11-B		C14-U01B
preservation	D03-H02		C11-B	Fruit extract	B04-A10K
Football	A12-F01B		D05-D		C04-A10K
Footpaths	A12-R09	Fracturing, well	A12-W10B	Fruit preservation	D03-A04
Footwear	A12-C04		H01-C03	Fruit setting agents	B12-P03
	F04-C05A	Frames, spectacle	A12-L03		C12-P03
production	F04-F02	Francium catalysts	N03-A		C14-U01B
sports	A12-F01	Francium compounds	B05-A04	Fruit thinning agents	B12-P03
Forge welding	M23-E01		C05-A04		C12-P03
Forged products	M21-K	inorganic	E35-Y		C14-U01B
Forging metal sheets, wires,		organic	E05-Q	Fruit, machines for	
rods, tubes or profiles	M21-J	Free radicals		coring	D03-J06
control devices	M21-J03	organic	B10-A01	cutting	D03-J06
equipment	M21-J02		C10-A01	peeling	D03-J04
processes	M21-J01		E10-A01	pulping	D03-J06
Forks	A12-D03	polymerisation catalysts	A02-A03	removing stones and pips	D03-J03
Formal, polyvinyl	A10-E02	scavenger	B14-S08	washing	D03-J05
Formaldehyde	E10-D01		C14-S08	Fruit products	D03-P
(co)polymers	A05-H02+	Freeze drying	J08-F04	FSH (follicle stimulating	
acetone polymer	A05-J08	coffee	D03-D01B	hormone)	B04-B02D4
condensant	A01-E09	tea	D03-D02B		B04-J05H
toluene resin	A05-J08	Freezing			C04-B02D4
Formalin condensant	A01-E09	apparatus	J07-C		C04-J05H
Formamide	E10-D03C1	food	D03-H02A	Fuel	A12-T03+
Formic acid	E10-C04J	liquids and semiliquids	J07-B	as briquettes	H09-F01
	E10-C04J1	spun fibres	F01-C	oils	H06-B05
production	E10-C04J1P	water treatment by	D04-A01C	emulsion	H06-B09
use	E10-C04J1U	French polish	G02-B05	filtration	J01-F04X4
Formica®	A12-A04A	Frenolicin	B02-F	propellants, explosives	A12-T03+
Forming			C02-F	rocket	A12-T03C
by dipping	A11-B04B	Fresnel lenses	A12-L02A		K04-C01
fabrics	F03-A01	Friction		treatment	H06-X01
from sheet or tube	A11-B08+	coatings	M13-K	combustion exhaust	H06-C+
from sheet or tube,		material	A12-H10	treatment	
forming from tube or pipe	A11-B08C		G04-B04	Fuel additives	A12-T03+
from sheet or tube,		material, ceramics	L02-G08		H06-D
forming of sheet or film		reducing material	A12-H10	methacrylate copolymer in	A04-F06E3
(excluding by vacuum)	A11-B08B	welding	M23-E01	petroleum fuel	A12-T03B
from sheet or tube, general	A11-B08+	Fried foodstuff	D03-H01U	rocket fuel	A12-T03C
from sheet or tube,		Friedel-Crafts		Fuel cells (electrical)	A12-E06+
vacuum assisted forming		catalysts	N04-D01		L03-E04
sheet/film	A11-B08A	catalysts, for		alkaline	L03-E04D
high energy rate	M21-D	polymerisation	A02-A04	component production	L03-E04H+
paper	F05-A05B	crosslinking agents	A08-C+	electrodes	A12-E06A
polymers (general)	A11-B+		A08-D+		L03-E04B
pores (foaming polymers)	A11-B06+	resins	A05-J	fuel storage for	J06-B06A
sheet metal	M21-E	Frost protection		hydrogen generation	L03-E04I
sheet, strip, tube	A11-B08+	concrete additives	L02-D14C	hydrocarbon based	H08-E04
vacuum type	A11-B08+			hydrogen oxygen	L03-E04F
Foundation garments	F04-C01			Molten carbonate	L03-E04C

Phosphoric acid	L03-E04E	photographic	G06-H02	Furniture	A12-D01
separators	L03-E04G	polymer additives	A08-M02	foam use in	A12-S04D
solid oxide electrolyte	L03-E04A	use of polymers	A12-W04C	Fused and Cast refractories	L02-E08
storage for internal		wood treatment	F05-B01	Fuses (detonators)	K04-B01
combustion	J06-B06B	Fungistat see Fungicides		Fuses, electrical	A12-E07
Fuel, nuclear	K05-B04	Fur, artificial	F04-B03		L03-B04D
chemical production	K05-B04A	Furan resins	A05-J	Fuses, semiconductor	L04-C10A1
element construction	K05-B04B	Furans		Fusidic acid	B02-F
recovery, reprocessing	K06-C	(co)polymers	A05-H05		C02-F
storage	K05-B07B	condensants	A01-E08	Fusing mechanisms	K03-A03
transport/storage containers	K07-A02A	Furans (excluding tetrahydrofuran)		Fusing of glass to	
Fuels			B07-A01	glass	L01-H03
Liquid, derived from waste			C07-A01	non-glass (excluding	
polymer	H06-B06		E07-A01	vitreous enamelling)	L01-H04
Fullerenes	B05-U	Furfural		Fusing process or rollers,	
	E05-U	condensants	A01-E10	electrophotographic	G06-G08C
	L02-H04B	resins	A05-J08	Fusion genes	D05-H12C
Buckminsterfullerene	B05-U02	Furfuraldehyde condensants	A01-E10	encoding altered fusion	
	E05-U02	Furfuryl alcohol		protein	B04-E02H
containing carbon only	B05-U02	condensants	A01-E14	encoding wild-type fusion	
	E05-U02	derived resins	A05-J	protein	B04-E03H
containing hetero atom(s)	B05-U01	Furnace accessories	J09-B	encoding altered fusion	
	E05-U01	charge handling	J09-B02	protein	C04-E02H
Falmerene	E05-U02	charge preheating and		encoding wild-type fusion	
Falmerenes	B05-U02	cooling	J09-B03	protein	C04-E03H
Fumarate, diallyl		constructional features	J09-B01	Fusion proteins	B04-N08
(co)polymers	A04-A03	control and safety devices	J09-B04		C04-N08
monomer	A01-B03	Furnace black	E31-N		D05-H17C+
Fumaric acid		filler	A08-R03	Fusion reactors, controlled	K05-A03
(co)polymers	A04-F05	Furnace design	J09-A	plasma containment	K05-A03A
monomer/condensant	A01-D08	open sintering	J09-A04	targets	K05-A03B
	A01-E12	rotary	J09-A03		
Fumaric ester		stationary, with			
(co)polymers	A04-F07	mechanically moved charge	J09-A02		
condensant	A01-E12	with stationary charge	J09-A01		
monomer	A01-D10	Furnace furniture for			
Functional fluids	A12-W02+	semiconductor processing			
	H08-D05	- including boats, racks,			
polymeric additives	A12-W02A	crucibles, wafer supports etc.	L04-D09		
Fungi	B04-B02B2	Furnaces for			
	C04-B02B2	calcining ceramic raw			
	D05-H05	material (rotary)	L02-A02		
Mushroom extracts	B04-A10A	cement clinker (rotary)	L02-C02		
	C04-A10A	glass	L01-C		
Mushrooms (whole)	B04-A08D	glass, construction and			
	C04-A08D	design	L01-C02		
Pichia pastoris	B04-F09D	glass, control and operation	L01-C03		
	C04-F09D	heat treatment of			
recombinant	D05-H14A2	ferrous metals	M24-D04		
Toadstools (whole)	B04-A08D	heat treatment of non-			
	C04-A08D	ferrous metals	M29-C02		
unicellular	B04-F09	heat treatment of			
	C04-F09	semiconductors	L04-D05		
yeast	B04-F09	metal casting	M22-G03G		
	C04-F09	metal working	M21-N04		
Fungicides	B12-A02C	sintering ceramics,			
	C12-A02C	refractories	L02-A04		
fabric treatment	A12-S05R	Furnishings	A12-D01		
	F03-C02B		F04-D+		
general	B14-A04	foam use in	A12-S04D		
	C14-A04				

## G

G-protein coupled receptor	B04-K01Y C04-K01Y	filling of pressure vessels	J06-B03	material	H09-C
Gadolinium compounds	B05-A03B C05-A03B	generation (for blasting or propulsion)	K04-C02	Gaseous lubricants	H07-E
catalysts	N03-A02B	holders of variable capacity	J06-A	Gasification of	
inorganic	E34-E02B	lifting equipment (oil/gas production)	H01-D02	liquids	J01-D02
organic	E05-P	liquefaction	J07-D01	petroleum feedstock	H04-E04
Galactomannan gums	A03-A+ B04-C02D C04-C02D D06-H	liquid mass transfer	J01-A02	solid carbonaceous materials	H09-C
Gall extracts	B04-B04H C04-B04H	masks	A12-C02	Gaskets	A12-H08
Gallium arsenide (semiconductors)	L04-A02A	particle separation	J01-G+	Gasoline	
Gallium catalysts	N03-G04	phase (co)polymerisation	A10-B A10-C+ A10-D+	as product, including additives	H06-B01
Gallium compounds	B05-A01B C05-A01B	plating by decomposition or reduction	M13-E	preparation	H04-D
inorganic	E35-F	plating by decomposition or reduction, apparatus	M13-E07	preparation, catalysts	H04-F02D
organic	E05-D	plating by decomposition or reduction, by glow or arc discharge	M13-E05	Gassing solids	J01-G05
Gallium phosphide (semiconductors)	L04-A02B	plating by decomposition or reduction, by thermal decomposition or reduction of gases on heated surfaces	M13-E06	Gastric disease treatment	B14-E10B C14-E10B
Galvanising of metal	M13-A	plating by decomposition or reduction, post treatment of coatings	M13-E08	Gastric secretion depressants	B12-J02 B14-E07 C12-J02 C14-E07
Games equipment	A12-F01+	plating by decomposition or reduction, pre-treatment of substrates	M13-E04	stimulants	B12-J01 B14-E11 C12-J01 C14-E11
Gamma globulin	B04-B04A6 B04-G01 C04-B04A6 C04-G01	plating by decomposition or reduction, to form inorganic coatings on metal	M13-E02	Gastrin	B04-J12 C04-J12
Gamma ray detector	K08-A03	plating by decomposition or reduction, to form organic coatings on metal	M13-E03	Gastritis treatment	B14-E10B C14-E10B
Ganglion blockers	B12-F03 B14-F01F C12-F03 C14-F01F	sensitive resistors	L03-B01A4	Gastrointestinal dysfunction treatment	B12-J01 B14-E10 C12-J01 C14-E10
Ganglioplegics	B12-F03 C12-F03	separation	J04-C04A	Gastropodocides	B12-N04 B14-B12 C12-N04 C14-B12
Gangliosides (no structure)	B04-B01B C04-B01B	separation of dispersed particles from	J01-G	Gates	A12-R02
Gap fillers for magnetic heads	L03-B05N	separation, by solidification or liquefaction	J07-D02	Gathering lines (oil and gas)	H03-A
Garbage fermentation	D05-A04A	sorption	J01-E02B1 J01-E03C1	Gear wheel crimping of fibres	F01-H04C
Gardening	A12-W04+	solvents	J06-B06	Gears	A12-H03
Garments	A12-C+ A12-C03 F04-C+ F04-C04	sorbent for storage	J06-B06C	Gelatin	A03-C01 B04-B04A6 B04-N02 C04-B04A6 C04-N02 D03-F G03-A
fastenings	F04-C	vessels for	J06-B	Gelation inhibitors	A08-C06 A08-D+
linings	F04-F01	Gaseous blowing		Gelled food products	D03-H01J
manufacture	L03-B02B3	agents	A08-B04	Gelling agents	A08-M06
Garnets		process	A11-B06+	Gels	A12-S B12-M02 C12-M02
Gas		Gaseous etching of metal, compositions	M14-A03	teeth cleaning	D08-B08C
attack compositions	K04-C	Gaseous fuel based on petroleum or natural gas	H06-A	teeth whitening	D08-B14C
blowing agents for polymers	A08-B04	solid carbonaceous		Gels/hydrogels	B12-M02G C12-M02G
chromatography	J01-E03A			Gemstones, artificial	L02-G08
cooled reactors	K05-A02A				
discharge from pressure vessels	J06-B04				
discharge from vessels					
not under pressure	J06-B05				
drying	J01-E01				
drying of solids	J08-H01				

Gene analysis	B11-C08F C11-C08F	for wood	F05-B01	polymer use in	A12-W12G
Gene delivery methods	B12-M19 C12-M19	Gibberellic acids	B04-B02A C04-B02A	rod and sheet manufacture	
by non-viral methods	B12-M19B C12-M19B	Gibberellins	B04-B02A C04-B02A	for optical fibre preforms	L01-F03F4
by viral methods	B12-M19A C12-M19A	Gingivitis treatment	B12-L04 B14-N06B C12-L04	recycling	L01-L02
Gene libraries	B11-C10C C11-C10C		C14-N06B	rod, tube manufacture	L01-F02
Gene therapy	B14-S03A C14-S03A	Ginning	F01-A02	shaping to special form	L01-F04
General chemical process	B11-C01 C11-C01	Gland extract	B04-B04G C04-B04G	solders	L01-H03
Other reactions	B11-C01C C11-C01C	Gastric juices	B04-B04G C04-B04G	soot deposition for	
Stereo-selective reactions	B11-C01C2 C11-C01C2	Snake venom	B04-B04G	optical fibre manufacture	L01-F03F2
Stereo-specific reactions	B11-C01C1 C11-C01C1	Spleen extract	B04-B04G	soot manufacture	L01-F03F2
Generation of electricity		Glass	L01	Glass coatings	G02-A05K L01-G04
electro-(in)organic use in	L03-H01	applications	L01-L	inorganic	L01-G04C
Generators of electricity	A12-E08B L03-E05	batch, components		optical	L01-G04D
Genetic disorder diagnosis	B12-K04A3 C12-K04A3	preparation	L01-B01	organic	L01-G04B
Genetic engineering	A12-W11L D05-H	batch, handling, mixing		techniques	L01-G04F
biological materials used in	D05-H19	preparation, pre-treatment	L01-B	Glass fabric reinforced plastics	A12-S08F
DNA amplification method	D05-H18B	bending of	L01-G10	Glass fibre	
DNA sequencing method	D05-H18A	bottle coating	L01-G04A	chemical features	F01-D09B
new methods	D05-H18	bound to antigen or		dyeing/printing	F03-F12
restriction enzymes used for	D05-H19A	antibody	B11-C07A6 C11-C07A6	polymer coating on	A12-B05
Genomics	B11-C08F+ C11-C08F+	bound to enzyme	D05-A01A5	production	F01-C07E
Gentamycin	B02-G C02-G	ceramic seals	D11-D01A L01-H04B	reinforced plastics	A12-S08B
Geological and geophysical		cleaners	D11-D01C L01-G11	reinforcing agents	A08-R04
exploration	H01-A01	compositions	L01-A	Glass sheet	
Geothermal heat transfer	J08-D07	encapsulation of		coatings of inorganic	
Geriatric treatment	B12-G04A B14-J01A4 C12-G04A C14-J01A4	semiconductors	L04-C20B	material	L01-G04C
Germ cells	B04-F03 C04-F03	fillers, reinforcing agents	A08-R04	coatings with organic	
Germanium		film deposition in optical		(plastic) material	L01-G04B
catalysts	N03-G02	fibre manufacture	L01-F03F3	manufacture by sol-gel	
production	M25-G12	finished product handling	L01-J	process	L01-D05
Germanium compounds	B05-A02 C05-A02	flakes, powders or		wire reinforced	L01-D04
inorganic	E35-G	microspheres	A08-R04	Glass-ceramics	L02-J02A
organic	E05-F02A	flat, manufacture	L01-D	applications	L01-K03
Germicides	A08-M02 B12-A01 B14-A01 C12-A01 C14-A01 D09-A01	foamed	L01-F07	compositions	L01-A08
for fabrics	F03-C02B	furnaces for	L01-C	manufacture	L01-K02
for paints	G02-A03B	heat treatment	L01-G02	Glass/ceramic composites	L02-J02A
		hollow ware manufacture	L01-E	Glasses (spectacles)	A12-L02A A12-V02A
		laminates	L01-H02	Glasses	
		layer formation by vapour		Metal coatings, processes	M13-F03B
		deposition	L01-F06	Glasshouses	A12-W04A
		manufacture, general	L01-C	Glassy metals	
		manufacture, general, by		Compositions	M26-C01
		sol-gel process	L01-C06	Production	M22-G03M1
		metal seals	L01-H04A	Glaucoma treatment	B12-L04 B14-N03A C12-L04 C14-N03A
		micro-beads	L01-F04		
		passivating layers for		Glazes	L01-H08
		semiconductors	L04-C12D	Glazing	
		photographic supports	G06-B	in building	A12-R04 L01-L01
		polishing	L01-G06	in vehicles	A12-T04A L01-L02
		polymer coatings on	A12-B05	Glazing ceramics, refractories	L02-A07
			L01-G04B	or concrete	
				Globulin	B04-B04A6 B04-N02 C04-B04A6 C04-N02



Glomerulonephritis	B14-N10	cyanoacrylate, monomers	A01-D04	Gonorrhea treatment	B12-A05
	C14-N10		A01-D10		B14-A01A5
Glomerulonephro- pathy	B14-N10	ethers of alcohols (epoxy			C12-A05
	C14-N10	resins)	A05-A03		C14-A01A5
Gloves	A12-C03	ethers of phenols (epoxy		Gout treatment	B12-C03
	F04-C05	resins)	A05-A02		B14-C02
protective	A12-C02A	methacrylate, (co)polymers	A04-F06+		C12-C03
	D09-C		A05-A04		C14-C02
	K07-A02	methacrylate, condensants	A01-E07	Gowns, surgical	A12-V03C1
Glucagon	B04-J03B	methacrylate, monomers	A01-D10B		D09-C04D
	C04-J03B	Glycogenic	B12-J01	GR-N	A04-B04
Glucose	B10-A07		B14-E11	GR-S	A04-B03+
	C10-A07		C12-J01	Grading devices for food	D03-K02
	D06-G		C14-E11	Graft copolymerisation	A10-C03+
	E10-A07	Glycol		by irradiation, bulk or	
Glue	A12-A+	condensants	A01-E14	solution	A10-C03C
	G03-A	di(meth)acrylate,		in emulsion/suspension	A10-C03B
Glueing of polymers	A11-C01+	(co)polymers	A04-B09	onto formed substrates	A10-C03A
Glutamic acid condensants	A01-E04	di(meth)acrylate, monomer	A01-C01	Graft rejection inhibitor	B14-C02C
Glutaric condensants	A01-E12	ethylene	E10-E04H1		C14-C02C
Glutathione	B04-C01A	ethylene, condensant	A01-E14	Grain (cereal)	B04-A07D2
	B10-B02D	Glycolides derived saturated			B04-A09F
	C04-C01A	polyester	A05-E02		C04-A07D2
	C10-B02D	Glycolipid	B04-B01B		C04-A09F
Gluten	B04-B04A4		C04-B01B	Grain (cereal), machines for	
	B04-N01	Glycolysed/ glycolysis of		treating	D03-J01
	C04-B04A4	polymers	A10-E09+	Grains of polymers	A12-S09+
	C04-N01	Glycosidase		Gramophone records	A12-W01+
Gluten free dietary foods	D03-H01T5	agonists	B14-L01A3	Granular (co)polymerisation	A10-B05
Glycerine - see glycerol			C14-L01A3	Granular laundry detergent	D11-D08
Glycerol	E10-E04H1	inhibitors	B14-D07B	Granulating detergents	D11-D03
condensants	A01-E14		C14-D07B	Granulation	A11-A04
derived polyether	A05-H	Glycosides (structure unknown)	B04-A07E		J04-A05
plasticisers	A08-P		C04-A07E	scrap recovery by	A11-C03A
Glycidol condensants	A01-E07	Glycosides as surfactants	D11-A03B	Granules	B12-M11D
	A01-E14	Glyptal resins	A05-E08		C12-M11D
Glycidoxypropyltrimethoxy		Gob (glass) formation	L01-F02	(pre)heating of	A11-A02A
silane adhesion improver	A08-M01D	Goggles	A12-C02	of polymers	A12-S09+
Glycidyl		Gold catalysts	N02-E	Graphic arts masking	C06-E02
acrylate, (co)polymers	A04-F06+		N02-E04	Graphite	E31-N
	A05-A04	Gold compounds	B05-A03B		G01-A11
acrylate, condensants	A01-E07		C05-A03B	electrodes for arc melting	L02-H04
acrylate, monomers	A01-D10B	inorganic	E35-B	electrodes for batteries	L03-A02
acrylic esters, (co)polymers	A04-F06+	organic	E05-N	fibres, chemical features	L03-E01B3
	A05-A04	Gold production	E05-N03B	of or production	F01-D09A
acrylic esters, condensants	A01-E07	Golf equipment	M25-G20	fibres, filler/reinforcing	
acrylic esters, monomers	A01-D10B	1,4-Gonadienes	B01-B03	agents	A08-R03A
allyl ether monomer/			C01-B03	non-fibrous filler/	
condensant	A01-D11	Gonadienes (two ring "A"		reinforcing agents	A08-R03
	A01-E07	double bonds other than 1,4)	B01-B04	Graphitisation	
alpha-chloroacrylate,			C01-B04	of carbon fibres	E31-N02
(co)polymers	A04-E	Gonadotropin-releasing		of polymers	A10-E05B
	A05-A04	hormone	B04-J07	Grass	B04-A07D4
alpha-chloroacrylate,			C04-J07		B04-A08C2
condensants	A01-E07	Gonanes (saturated ring "A")	B01-D02		C04-A07D4
alpha-chloroacrylate,			C01-D02		C04-A08C2
monomers	A01-D10			Gravel packing (well treatment)	H01-C08
compound epoxy resins	A05-A+			Gravity	
cyanoacrylate, (co)polymers	A04-D				
	A05-A04				
cyanoacrylate, condensants	A01-E07				

filters	J01-F02A
separation of particles from gases	J01-G02
Gravure printing plates	G05-A03
Greases	A12-W02+ H07-C
Green chemistry	B14-Y C14-Y E11-K03
Green sensitive (electro)- photographic layers	G06-C14C
Greenhouses	A12-W04A
Greying inhibitors for detergents (excluding bleaching agent)	D11-B05
Grinding	J02-B
coffee	D03-D01C
food	D03-K
pigments/fillers	G01-B01
polymers	A11-A04
tea	D03-D02C
Grinding wheels, grindstones	A12-A03
Griseofulvin	B02-G C02-G
Ground	
consolidation	A12-A02
consolidation, in mining	A12-W10C
vehicles	A12-T+
Ground polymers	A12-S09A
Grounds, sports	A12-F01A
Grouts, grouting compositions	A12-R08 L02-D01 L02-D12
Growth hormone (GH)	B04-B02D4 B04-J05 C04-B02D4 C04-J05
Growth hormone-releasing hormone/factor	B04-J09 C04-J09
Growth inhibitors (plants)	B12-P09 C12-P09 C14-U01E
Growth media, artificial general	B12-N08 C12-N08 C14-T01
Growth stimulant (plant)	B12-P04 C12-P04 C14-U01C
GRP	A12-S08B
Guanamine condensants	A01-E01
Guanamines derived	
aminoplasts	A05-B
Guanidine	B10-A17 C10-A17 E10-A17 E10-A17A E10-A17B
accelerators for crosslinking	A08-C03
condensants	A08-D03 A01-E05

Guano	B04-B04B B04-B04B2 C04-B04B C04-B04B2 B04-B03A C04-B03A A03-A+ B04-C02D C04-C02D D06-H B14-N06B C14-N06B
Guanosine	
Guar gum	
Gum disease treatment	
Gum removal (petroleum refining)	H04-A04
Gums	A03-A+ A03-C02 B04-C02D C04-C02D D06-H L02-E05 F04-G
Gunnable refractories	A03-B
Gut for racquets	A12-R02
Gutta percha	A12-F01+
Guttering	B04-A08C1 C04-A08C1
Gymnasium equipment	E34-D02
Gymnosperms	A12-R01A L02-C05 L02-D07A
Gypsum	
board	
cement	
products	

## H

H1-secretion inhibitors	B12-D06B B14-L10 C12-D06B C14-L10
H2-secretion inhibitors	B12-D06A B14-L11 C12-D06A C14-L11
Hackling of fibres	F01-F01
Haematinics	B12-H01 B14-F03 C12-H01 C14-F03
Haematopoietics	B12-H01 B14-F03 C12-H01 C14-F03
Haematosi treatment	B12-H01 B14-F03 C12-H01 C14-F03
Haemochromatosis treatment	B12-H01 B14-F03 C12-H01 C14-F03
Haemodialysis apparatus	J01-C03B1 A12-W11A
Haemoglobin	B04-B04D2 C04-B04D2
Haemolytics	B12-H02 B14-F04 C12-H02 C14-F04
Haemonchosis treatment	B12-B02 B14-B03A C12-B02 C14-B03A
Haemorrhoids treatment	B12-J04 B14-E04 C12-J04 C14-E04
Haemostatics	B12-H04 B14-F08 C12-H04 C14-F08
Hafnium	
alloys	M26-B13
production	M25-G28
Hafnium catalysts	N03-B N03-B02 for polymerisation A02-A06+ B05-A03B B05-A04 C05-A03B C05-A04
Hafnium compounds	
inorganic	E35-L E35-Q E35-R

organic	E05-N	organic	B10-A02	Halohydrocarbons containing	
	E05-N01		C10-A02	bromine (others)	B10-H02D
Hair (or extracts)	B04-B04E		E10-A02		C10-H02D
	C04-B04E	Hall effect devices	L04-E07		E10-H02D
artificial (e.g. wigs)	A12-V04	Halo-substituted styrenes		bromine linked to	
	D08-B01	(co)polymers	A04-C	aromatic ring	B10-H02C
	F04-G	monomer	A01-D02		C10-H02C
brushes	A12-V04A	Haloalkylated/			E10-H02C
care compositions	A12-V04A	haloalkylation of polymers	A10-E03	chlorine (others)	B10-H02F
	D08-B	Haloamines			C10-H02F
conditioners	A12-V04A	organic	B10-A02		E10-H02F
	D08-B03B		C10-A02	chlorine bonded to	
dyeing preparations	A12-V04A		E10-A02	aromatic ring	E10-H03C1
	D08-B06	Haloarylated/haloarylation			E10-H04C1
implanted	A12-V02	of polymers	A10-E03	chlorine linked to	
preparation for treating	B12-L05	Halochromic dye precursors	E26-B	aromatic ring	B10-H02E
	B14-R02	Halogen			C10-H02E
	C12-L05	Cl compound production	E31-B02D		E10-H02E
	C14-R02	Cl element production	E31-B02B	chlorine only	E10-H03C
rinsing preparations	D08-B04	element	B05-C07		E10-H03C2
shampoos	A12-V04A		C05-C07		E10-H03C3
	D08-B03	element production by			E10-H03C4
sprays	A12-V04A	electrical method	E31-B01		E10-H03C5
	D08-B05	element production by			E10-H04C
waving, straightening or		non-electrical method	E31-B02		E10-H04C2
fixing preparations	D08-B05	element use	E31-B03		E10-H04C3
Hairpieces	A12-V04	F, Br, I compound production	E31-B02C		E10-H04C4
	D08-B01	F, Br, I element production	E31-B02A		E10-H04C5
	F04-G	halides (organic)	B10-A02	fluorine (others)	B10-H02B
Halates			C10-A02		C10-H02B
Dihaloamines (organic)	B10-A02		E10-A02		E10-H02B
	C10-A02	oxides	B05-C07	fluorine and chlorine only	E10-H03B
inorganic	B05-C07		C05-C07		E10-H03B1
	C05-C07		E31-C		E10-H03B2
	E31-C	oxyacid (or salt)	B05-C07		E10-H04B
organic	B10-A02		C05-C07		E10-H04B1
	C10-A02		E31-C		E10-H04B2
	E10-A02	Halogen catalysts	N04-D	fluorine bonded to	
Half tones	G06-E01	Halogen free volatile		aromatic ring	E10-H03A1
Halides		blowing agents	A08-B04B		E10-H04A1
Cl element production	E31-B02B	Halogen in ring, organic		fluorine linked to	
F, Br, I compound production	E31-B02C	compound	E05-K	aromatic ring	B10-H02A
inorganic	B05-C07	Halogen or halogen			C10-H02A
	C05-C07	generators as disinfectants			E10-H02A
		other than of food or air	D09-A01A	fluorine only	E10-H03A
inorganic production	E31-B02	Halogen-containing			E10-H03A2
inorganic use	E31-B03	addition polymer coatings			E10-H03A3
organic	B10-H02	(paint)	A12-B01F		E10-H04A
	C10-H02	addition polymer for			E10-H04A2
	E10-H02	coating metal	A12-B04E		E10-H04A3
	E10-H03	aliphatic mono-unsaturated		iodine (others)	B10-H02D
	E10-H04	(excluding N) polymer	A04-E+		C10-H02D
Halides (ceramic)	L02-H	flame retardants	A08-F04+		E10-H02D
Halides of metal, catalysts	N04-D01	Halogenated oils	B04-B01A	iodine linked to	
for polymerisation	A02-A06B		C04-B01A	aromatic ring	B10-H02C
Halides or oxyhalides of		Halogenated waxes	B04-B01A		C10-H02C
transition metals, catalysts			C04-B01A		E10-H02C
Halites		Halogenated/halogenation		Halohydrocarbons, removal of	D04-B06E
inorganic	B05-C07	of polymers	A10-E04A	Halohydrogenated/	
	C05-C07	halohydrocarbon volatile		halohydrogenation of	
	E31-C	blowing agents	A08-B04A	polymers	A10-E04

Halonium, organic compounds	B10-A01 C10-A01 E10-A01	Headache treatment	B12-D01 B14-C01 C12-D01 C14-C01	Heat exchanger	A12-W11G
Haloprenes including chloroprene (co)polymers monomer	A04-B08 A01-C04	Heads		cleaning	J08-E
Halosulphonated/ halosulphonation of polymers	A10-E12B	magnetic	A12-E08A2 L03-B05M	control arrangements	J08-D05
Hammering metal sheet, wire, rod tube, or profile	M21-J	thermal inkjet	L03-G10B	deposit prevention	J08-D02
control devices	M21-J03	Healds	F02-A02	direct contact	J08-B
equipment	M21-J02	Health foods		elements	J08-D01
processes	M21-J01	diabetic	D03-H01T5	indirect contact	J08-C
Handbags	A12-T	dietary fibre	D03-H01T1	modifying heat transfer	J08-D04
Handkerchiefs	F04-C01	gluten free	D03-H01T5	nuclear plant	K06-B
Handles (packaging)	A12-P	high calorie	D03-H01T4	petroleum refining	H05-M
Handling of		low calorie	D03-H01T3	special features	J08-D03
glass, batches	L01-B	low carbohydrate	D03-H01T3B	with moving conduits	J08-C03
glass, finished products	L01-J	low fat	D03-H01T3A	with stationary conduits	J08-C01 J08-C02
glass, post-forming	L01-G01A	other (not prebiotic, not probiotic)	D03-H01T2B	Heat pipes	J08-C04
polymers/plastics,		prebiotic	D03-H01T2A	Heat sensitive	
moulded articles	A11-C06	probiotic	D03-H01T2A	materials (electrical)	A12-E10
polymers/plastics, raw materials	A11-A	special dietary requirements	D03-H01T5	recording	A12-L05A G06-F08+
textile webs	F03-K01	Health physics	K07-X	Heat storage	
Handrails	A12-R02	Heart disease treatment	B12-F01 B14-F01 C12-F01 C14-F01	compositions	A12-W11G
Hands, artificial	A12-V02 D09-C01D	Heart disorder diagnosis	B12-K04A2 C12-K04A2	devices	L03-H04A
Hapten bound to enzyme	D05-A01A3	Heart extracts	B04-B04H C04-B04H	devices, non-electric	A12-R02B
Haptens	B04-B04C7 C04-B04C7	Heart valves, artificial	A12-V02 D09-C01C	Heat transfer	
Hard alloys based on carbide, nitride, boride or silicide	M26-B12	Hearth steel processing	M24-B02B	apparatus	J08-D
Hard Candy	D03-E10A	Hearts, artificial	D09-C01C	compositions	A12-W11G
Hard facing	M23-E03	Heat		fluids	G04-B01
Hard surface cleaners	D11-D01B	collectors (polymer use)	A12-R02B	from exhaust gases	J08-D08
Abrasive types	D11-D01B3	developable material for photosensitive systems	G06-C08	geothermal	J08-D07
Household (other)	D11-D01B5	electrical use	A12-E10	media	H08-D09 J08-D06
Industrial	D11-D01B6	insulation	A12-R06 L02-D15	modification in heat exchanger	J08-D04
Hardboard	A12-A04+ F05-A07	insulation, for pipes	A12-H02D1	Heat treatment	A11-A02+ A11-B02+
Hardeners for resins	A08-C+ A08-D+	insulation, for vehicles	A12-T04B	apparatus for ferrous metal	M24-D04
Hardeners, photographic	G06-H14	properties	A09-A01+	apparatus for ferrous metal, furnaces for ingots	M24-D04A
Harsh abrasive oxides	L02-F04	sealing	A11-C01+	apparatus for non-ferrous metal	M29-C02
Hats	A12-C03 F04-C05	setting	A11-B02+	apparatus for non-ferrous metal, furnaces for treating strip wire or sheet	M24-D04B
Haul-off		setting, fabric	F03-A02	apparatus for non-ferrous metal, furnaces, coilers	M24-D04C
after extrusion	A11-B07D	setting, fibres	A11-B02C F01-H05	apparatus for non-ferrous metal, other furnaces	M24-D04D
of finished articles	A11-C06	setting, film	A11-B02C	apparatus for non-ferrous metal, quenching baths	M24-D04E
preliminary processing	A11-A	setting, yarn	F01-H05	furnaces for semiconductor manufacture	L04-D05
Hay	B04-A07D4 B04-A09H C04-A07D4 C04-A09H	sinks (electronics)	L03-G	Heat treatment of	
Haze	A09-A02	sinks for semiconductor devices	L04-C25	ferrous metal	M24-D02
HDPE	A04-C02+	stabilisers	A08-A04+	ferrous metal, annealing	M24-D02B
Head boxes of paper making machines	F05-A04A	stabilisers, for fabrics	F03-C07	ferrous metal, cast iron	M27-B03
		stability of polymers	A09-A01A	ferrous metal, iron alloys	M27-B
		sterilisation of food	D03-H02B	ferrous metal, multistage process	M24-D02D
				ferrous metal, specific articles	M24-D03
				ferrous metal, steel alloys	M27-B04

ferrous metal, surface hardening	M24-D02A	general or Non A Non B	B14-N12 C14-N12	Heterocyclic compounds as disinfectants other than of food or air (excluding D09-A01A+ D09-A01B)	D09-A01C
ferrous metal, using heat treatment baths	M24-D02C	hepatitis A	B14-A02B3 C14-A02B3	Heterocyclic polymers (excluding polyimides)	A05-J02
fibres	F01-H05	hepatitis B	B14-A02A5 C14-A02A5	Heterocyclics, fused ring	B06 C06 E06
glass	L01-G02	hepatitis C	B14-A02A7 C14-A02A7	containing "N" and "O" only	B06-E C06-E E06-E
non ferrous metal or alloy	M29-C	hepatitis D	B14-A02A8 C14-A02A8	containing "N" and "S" and "O" only	B06-G B06-G C06-G E06-G
non-ferrous metal or alloy, apparatus	M29-C02	Hepatoprotectives	B12-G02 B14-N12 C12-G02 C14-N12		
non-ferrous metal or alloy, specific articles	M29-C01	Herbal tea	D03-D03		
polymers	A11-A02+ A11-B02+	Herbicide			
semiconductors	L04-C16	antidote	B12-J05D B14-M01E C12-J05D C14-M01E		
Heaters (electrical) polymer use	A12-E10				
Heating					
electrical	A12-E10 L03-H04A				
elements used in					
deodorization	D09-B01B				
fibres, fabrics	A11-A02A	aromatic crop	C14-V02A	containing "N" and "S" only	B06-F C06-F E06-F
films/sheets, divided forms	A11-A02A	cereal crop	C14-V02B	containing "N" only	B06-D B06-D C06-D E06-D
other forms	A11-A02B	fruit crop	C14-V02C		
Heating and cooling	A11-A02+	general and total	B12-P05 C12-P05 C14-V01		
Heavy clay products	L02-G02				
Heavy concrete	L02-D02				
Heavy duty cleaning agents	D11-D01B	oil crop	C14-V02D	containing "O" only	B06-A C06-A E06-A
Heavy duty laundry detergents	D11-D07A	ornamental crop	C14-V02E		
Heavy metals		post-emergence	C14-V03A	containing "S" and "O" only	B06-C C06-C E06-C
compounds as disinfectants other than of food or air	D09-A01A	post-emergence, pre-emergence general	C14-V03	containing "S" only	B06-B C06-B E06-B
poisoning treatment	B12-J05C B14-M01D C12-J05C C14-M01D	pre-emergence selective	C14-V03B B12-P06 C12-P06 C14-V02 C14-V02F		
removal from waste water	D04-B05 D04-B05A	vegetable crop		containing ring halogen	B05-C07 C05-C07
waste encapsulation	L02-D	Herbicides			
Heavy water	E31-A K05-B05A	use of polymers	A12-W04C	general	E05-K B06-H C06-H E06-H
Heddles	F02-A02	Het-acid condensant	A01-D08 A01-E12		
Helium (element)	B05-B02C C05-B02C E31-J	Heteroatom containing monomers	A01-A00A	rHeterocyclics, mononuclear	B07 C07 E07
Helium compounds	B05-B02C C05-B02C	Heterocyclic compound catalysts	N05-D	containing "N" and "O" only	B07-E C07-E E07-E
inorganic	E31-J	Heterocyclic compound containing phosphorus with P-C bond	B05-B01E C05-B01E E05-G01	containing "N" and "S" and "O" only	B07-G C07-G E07-G
organic	E05-K	with P-halogen bond	B05-B01H B05-B01J C05-B01H C05-B01J	containing "N" only	B07-D C07-D C07-E E07-D
Helmets	A12-C02B				
Hem(e) - see Haem-					
Heparin	B04-C02E C04-C02E				
Heparin (optionally modified)	B04-C02E1 C04-C02E1	with P-N bond	B05-B01J C05-B01J E05-G04		
Hepatic condition treatment	C12-G02	with P-O (or S) bond	B05-B01M C05-B01M E05-G07		
Hepatic extracts	B04-B04H C04-B04H				
Hepatitis treatment	B12-A01 B12-G02 C12-A01 C12-G02				

containing "O" only	B07-A C07-A E07-A	Hides (or extracts)	B04-B04E C04-B04E D07-A D07-B	Honeycomb structures	A12-R06
containing "S" and "O" only	B07-C C07-C E07-C	High calorie foodstuff	D03-H01T4	Hormonal activity general	B12-G04 B14-D01 C12-G04 C14-D01
containing "S" only	B07-B C07-B E07-B	High density polyethylene	A04-G02+	Hormone inhibitor	B12-G01A B14-D02 C12-G01A C14-D02
containing ring halogen	B05-C07 C05-C07 E05-K	High energy rate forming	M21-D	Hormone level determination	B12-K04A6 C12-K04A6
general	B07-H C07-H E07-H	High frequency welding of plastics	A11-C01+	Hormones (activity)	C12-G04
Hexacene	B08-A C08-A E08-A	High impact mixtures of polymers	A07-A+ A09-A05A A04-C02+ A04-C02B1 A09-A05A	Hormones (general)	B04-B02D B04-J01 C04-B02D C04-J01
Hexachloroendo- methylene tetrahydrophthalic acid condensant	A01-D08 A01-E12	High pressure addition (co)polymerisation	A10-B	Horn (or extract)	B04-B04E C04-B04E
1,4-Hexadiene (co)polymers monomer	A04-B A01-C05	High pressure polyethylene	A04-G02+ A11-B15B1	Horticulture foam use in	A12-W04+ A12-S04C
Hexafluoropropylene	E10-H02B E10-H03A3 E10-H04A3	High speed melt spinning	F01-C08B1	Hoses (including tubes, pipes and fittings)	A12-H02+ F04-E
(co)polymers	A04-E10D	High temperature detergents	D11-D01G	fittings	A12-H02C
(co)polymers, with TFE monomer	A04-E09 A01-D12	High throughput screening	B11-C10A C11-C10A	linings and coatings	A12-H02D
Hexahydrophthalic acid condensant	A01-E12	Highways, polymer use	A12-R09	reinforced	A12-H02B
Hexamethoxymethyl melamine	A10-E08C	Hinges, polymer use	A12-H06	unreinforced	A12-H02A
Hexamethylene diamine condensant	E10-B01E A01-E05	HIPS (high impact polystyrene)	A04-C02+ A04-C02B1 A09-A05A	Hosiery	A12-C03 F04-C02
Hexamethylene diisocyanate	E10-A14 E10-A14A E10-A14B	Histamine agonist/mimetic	B14-L05 C14-L05	Hot dip metal coatings	M13-A
condensant	A01-E02	Histaminergic	B14-L05 C14-L05	Hot pressing ceramic powders	L02-A04
Hexamethylene- tetramine	B06-D17 C06-D17 E06-D17	Histoma treatment	C12-G07	powder metallurgy	M22-H03C
condensant	A01-E05	Histomoniasis treatment	C12-B01	Hot stamping of polymers	A11-C04C
crosslinker for addition and ethylenically unsaturated (co)polymers	A08-C09	Histomonicide	B14-A03D C14-A03D	Hot tops	M22-G02B
crosslinker for other polymers	A08-D03	Hole manufacture in semiconductor processing	L04-C06C	refractories for	L02-E06
Hexamine - see Hexamethylene- tetramine		Hollow fibres	A12-S05A F01-E03	Hot working of cast iron alloys	M27-B03
Hexane diamine condensant	E10-B01E A01-E05	Hollow ware, glass, forming mechanism for	L01-E	ferrous metal	M24-D01A
1,6-Hexane diol condensant	A01-E14	Hollow ware, glass, transfer mechanism for	L01-E07	iron alloys	M27-B
Hexene-1 (co)polymers monomer	A04-G A01-D13	Holmium compounds	B05-A03B C05-A03B N03-A02B E34-E02B E05-P	non-ferrous metal and alloys	M29-A M27-B04
Hexyl acrylate (co)polymers	A04-F06+	Holograms, holography	G06-D G06-E L03-G04 L03-G04B9	steel alloys	M29-A
Hexylene glycol condensant	A01-E14	materials for	L03-G04B9	Household, polymer use in polyethylene polypropylene	A12-D+ A04-G02E3 A04-G03E1
		Holomycin	B02-H C02-H	HPLC	B11-C08D2 C11-C08D2
		Home furnishings of fabric	F04-D+	5-HT agonist	B14-J03 C14-J03
		Homogenising of polymers	A11-A03+	5-HT antagonist	B14-J04 C14-J04
		Homopolymerisation addition	A10-B+	Human growth hormone (hGH)	B04-J05 C04-J05
		condensation	A10-D+	Humic acid	B04-A07D1 B04-A09J C04-A07D1 C04-A09J
		Honey	B04-D01 C04-D01		

Humus	B04-A07D1 B04-A09J C04-A07D1 C04-A09J	aliphatic, monoolefinic, monomers A01-D13 aromatic, diolefinic, (co)polymers A04-B10 aromatic, diolefinic, monomers A01-C03 aromatic, monoolefinic, (co)polymers A04-C+	crosslinker for other polymers A08-D redox polymerisation catalyst A02-A03 Hydrogenated/hydrogenation of polymers A10-E13 Hydrogenation processes B11-C01 C11-C01 E11-D
Huntingtons's disease treatment	B14-J01A4 C14-J01A4		
Husks from seeds	B04-A07D2 B04-A09F C04-A07D2 C04-A09F	aromatic, monoolefinic, monomers A01-D03 blowing agents for polymers A08-B04B cycloaliphatic, diolefinic, (co)polymers A04-B cycloaliphatic, diolefinic, monomers A01-C05	of unsaturated carbon- carbon (C-C) bonds E11-D01 of unsaturated carbon- carbon (C-C) bonds (catalytic) N07-B01 other than of unsaturated carbon-carbon (C-C) bonds E11-D02 petroleum refining H04-E08
Hybridisation tests (DNA) (process)	B11-C08E5 C11-C08E5		Hydrogen production Electrical methods E31-A02A In fuel cell L03-E04I Storage E31-A02B Other E31-A02C
Hybrid circuits	L04-F06		
Hybridomas	B04-F05 C04-F05 D05-H15A	cycloaliphatic, monoolefinic, (co)polymers A04-G cycloaliphatic, monoolefinic, monomers A01-D13 unsubstituted condensants A01-E	
Hydraulic fluids	A12-W02+ H08-D05		
Hydrazides of acrylic acids (co)polymers monomer	A04-D04+ A01-D06	Hydrochlorinated/ hydrochlorination of polymers A10-E04 Hydrocortisone B01-C02 C01-C02	Hydrohalogenated/ hydrohalogenation of polymers A10-E04
Hydrazine	B05-C03 C05-C03 E31-H	Hydrocracking H04-B03 Hydroentangling of non-woven fabrics F02-C02F	Hydriodinated/hydroiodination of polymers A10-E04
compounds (organic)	B10-A19 C10-A19 E10-A19 E10-A19A E10-A19B	Hydrofluoric acid polymerisation catalyst A02-A04 Hydrofluorinated/ hydrofluorination of polymers A10-E04	Hydrolase B04-B02C3 B04-L05 C04-B02C3 C04-L05
Hydrazone	B10-A19 C10-A19 E10-A19 E10-A19A E10-A19B	Hydroforming H04-C03 Hydroformylation reaction E11-F02A Hydrogels of polymers A12-S Hydrogen as chain transfer agent A02-B element B05-C08 C05-C08 E31-A halides (or salts) B05-C07 C05-C07 halides (or salts) production E31-B02 halides (or salts) use E31-B03 manufacture (in petroleum refining) H04-E06 sulphide (or inorganic salt) B05-C05 C05-C05 sulphide (or inorganic salt) production E31-F02 sulphide (or inorganic salt) removal from water D04-B07D sulphide (or inorganic salt) use E31-F04 Hydrogen catalysts N05-A Hydrogen peroxide B05-C08 C05-C08 E31-E01 catalyst for polymerisation A02-A01 crosslinker for addition (co)polymers A08-C05	agonists B14-L01A3 C14-L01A3 enzyme processes D05-A01B3 D05-A02C inhibitors B12-C01B3 B14-D07 C12-G01B3 C14-D07 production by fermentation D05-C03C Hydrolysed polymers A10-E09+ ethylene-vinyl acetate copolymer A10-E09A A10-E09B polyvinyl acetate A10-E09A A10-E09B
Hydride of metal, catalysts	N05-A		
Hydride, inorganic (general)	B05-C08 C05-C08 E31-A		
Hydrin ®	A05-H04		
Hydrobrominated/ hydrobromination of polymers	A10-E04		
Hydrocarbon synthesis	H04-E05		
Hydrocarbon- aldehyde (or ketone) condensates	A05-J08		
Hydrocarbons	B10-J C10-J E10-J		
aliphatic conjugated diolefinic, (co)polymers	A04-B+		
aliphatic conjugated diolefinic, monomers	A01-C05		
aliphatic non-conjugated di- or poly-olefinic, (co)polymers	A04-B+		
aliphatic non-conjugated di- or poly-olefinic, monomers	A01-C05		
aliphatic, monoolefinic, (co)polymers	A04-G+		
			Hydrolysis catalytic reaction N07-F06 fabric treatment F03-C08 non-ferrous metal extraction of polymers M25-B01 A10-E09 Hydrometallurgical extraction M25-B Hydroperoxide aromatic E10-A04B1E catalyst for polymerisation A02-A01 crosslinker for addition (co)polymers A08-C05 crosslinker for other polymers A08-D organic non-aromatic redox polymerisation catalyst A02-A03

Hydrophobization		Hydroxypropyl ethyl cellulose	A03-A04+	Hyponitrite polymerisation	
treatment of fabrics	A12-G03		B04-C02A2	catalysts	A02-A02
	A12-S05R		C04-C02A2	Hyposulphites	
	F03-C02A	Hydroxypropyl methyl cellulose	A03-A04+	inorganic	B05-C05
Hydroquinone condensant	A01-E13		B04-C02A2		C05-C05
Hydrotropes in detergent			C04-C02A2		E31-F
compositions	D11-B16	5-Hydroxytryptamine		organic	B10-A09C
Hydroxamic acid (organic)	B10-A18	agonist	B14-J03		C10-A09C
	C10-A18		C14-J03		E10-A09C
	E10-A18	antagonist	B12-G01	Hypotension treatment	B14-F02A
	E10-A18A		B14-J04		C14-F02A
	E10-A18B		C12-G01	Hypotensives	B12-F05
Hydroxide	E31-D05		C14-J04		B14-F02B
Hydroxy acid based		Hydroxvaleric acid based			C12-F05
saturated polyesters	A05-E02	polyester	A05-E02B		C14-F02B
Hydroxy acids condensants	A01-E11	Hygiene	A12-V03C1	Hypothalamo- hypophysial	
	A01-E12		D09-A	system treatment	B12-E01
	A01-E14		D09-C		C12-E01
Hydroxy acids, carboxylic	B10-C04	Hygroscopic		Hypothermia treatment	B14-C05
	C10-C04	fabric treatment	F03-C05		C14-C05
	E10-C04	Hyoscyamine	B04-A01	Hypothermics	B12-D08
Hydroxy condensants	A01-E13		C04-A01		B14-C04
	A01-E14	Hypalon ®	A10-E12B		C12-D08
Hydroxy group containing		Hyperglycaemic	B14-F10		C14-C04
vinyl polymer based			C14-F10	Hypoxaemia treatment	B12-E01
polyurethanes	A05-G	Hyperopics	B14-J05B		B12-K06
Hydroxy group incorporation			C14-J05B		B14-K01
in polymer (excluding		Hypertensives	B12-F04		C12-E01
hydrolysis)	A10-E23		B14-F02A		C12-K06
Hydroxy group terminated			C12-F04		C14-K01
polybutadiene	A10-E23		C14-F02A	Hytrel ®	A05-E09
Hydroxyalkyl (meth)acrylates		Hyperthermic	B14-C05		
(co)polymers	A04-F06+		C14-C05		
monomer	A01-D10B	Hypertonia treatment	B12-C05		
paints, coatings	G02-A02C2		B14-J05A		
Hydroxyamines condensants	A01-E05		C12-C05		
	A01-E13		C14-J05A		
	A01-E14	Hypnotics	B12-C07		
Hydroxybutyric acid based			B14-J01B1		
polyester	A05-E02B		C12-C07		
Hydroxyethyl cellulose	A03-A04+		C14-J01B1		
Hydroxyethylamine condensant	A01-E05	Hypoallergic	B12-D02		
	A01-E14		B14-G02A		
Hydroxylamine	B05-C03		C14-G02A		
	C05-C03	Hypoallergics	C12-D02		
	E31-H	Hypoglycaemics	B12-H05		
organic compounds	B10-A18		B14-F09		
	C10-A18		C12-H05		
	E10-A18		C14-F09		
	E10-A18A	Hypohalite			
	E10-A18B	inorganic	C05-C07		
1,4-Hydroxymethyl			E31-C		
cyclohexane condensant	A01-E14	organic	B10-A02		
Hydroxynaphthalene			C10-A02		
condensant	A01-E13		E10-A02		
17-Hydroxyprogest- erones		Hypohalite (inorganic)	B05-C07		
(excluding cortisones and		Hypoleukocytosis treatment	B12-G05		
cortisols)	B01-C03		B14-H01A		
	C01-C03		C12-G05		
Hydroxypropyl cellulose	A03-A04+		C14-H01A		
	B04-C02A2				
	C04-C02A2				





Induction heating (electric, welding and cutting)	M23-D03	Inhalants	B12-M01B	Inorganic and metallic fibres	
Industrial	C14-W	Inhaler	C12-M01B	chemical features	F01-D09+
Industrial culture media preparation	D05-A04B		B12-M01B	dyeing/printing	F03-F12
Industrial effluent treatment	E11-Q02B	Dry powder	C12-M01B	Inorganic cellulose esters	A03-A03
Industrial fabrics	F04-E+		B12-M01B1	Inorganic compounds as disinfectants, other than of food or air	D09-A01A
Inert gas (group O) catalysts	N04-A	Multidose	C12-M01B1	Inorganic fibres dyeing/printing	F03-F12
Inert gas compounds			B12-M01B2	Inorganic nanostructures	E31-U
inorganic	B05-B02C	Inhibitor general and other	C12-M01B2	nanofilms	E31-U03
organic	B05-B02C		B14-L06	nanoparticles	E31-U01
	E05-K	Inhibitors	C14-L06	nanorods	E31-U02
Inert gas compounds organic	C05-B02C	corrosion	A12-W11J	nanotubes	E31-U02
Inert gas-element or inorganic compound	C05-B02C		M14-F	nanowhiskers	E31-U02
Inert gas-element or inorganic compounds	E31-J	corrosion, in water systems	D04-A03C	Inorganic peroxide, persalt	B05-C08
Inert silicon compound	D11-B11	pickling	M12-A02		C05-C08
	D11-B11B2	polymerisation	A02-C		E31-E
		scale	A12-W11J	catalysts for polymerisation	A02-A01
		scale, in water systems	D04-A03A	crosslinkers for ethylenically	
		scale, on polymerisation		unsaturated polymers	A08-C05
Inertia separation of particles from gases	J01-G02	vessels	A08-S08	crosslinkers for other	
Infection diagnosis	B12-K04A4		A10-G02	polymers	A08-D
	C12-K04A4	Initiated by ionizing radiation light etc.		redox polymerisation	
Bacterial infection diagnosis	B12-K04A4B	addition		catalysts	A02-A03
	C12-K04A4B	(co)polymerisation	A10-B06	Inorganic photoconductors, for radiation sensitive systems	G06-F07+
Parasitic infection diagnosis	B12-K04A7	curing, crosslinking of		containing zinc oxide or selenium (alloy or compound)	G06-F07A
	C12-K04A7	polymers	A11-C02B		A08-E02
Viral infection diagnosis	B12-K04A4A	graft copolymerisation	A10-C03C	Inorganic pigments	G01-A+
	C12-K04A4A	modification of polymers	A10-E10		A12-B01C
Infectious development (photographic)	G06-G01	Initiators for polymerisation	A02-A+	Inorganic polymer coatings	G02-A01+
Infertility treatment	B14-P02	Injection gun	B11-C04C		A12-B01C
	C14-P02		C11-C04C	general	A12-B01C
antiabortive	B14-P03	Injector, needle free	B11-C04E	on metal	A12-B04C
	C14-P03		C11-C04E	Inorganic polymers	A06+
Infiltration (powder metallurgy)	M22-H03E	Injection moulding	A11-B12+	Inorganic resins for coating metal	A12-B04C
Inflammability of fabrics	F03-C03+	equipment excluding		Inorganic treatment of pigments/filler	G01-B02
Inflammability of polymers	A09-A01	moulds	A11-B12C	Inotropics	B12-E02
Inflammatory bowel treatment	B14-E10C1	moulds	A11-B12B		B12-F01C
	C14-E10C1	to form specific goods	A11-B12A		C12-E02
		Injection-blow moulding	A11-B10		C12-F01C
Inflation forming of tubular films	A11-B07A		A11-B12+	general	B14-J05
	A12-S06A	Ink jets	G05-F03	negative	B14-J05A
Influenza treatment		heads	L03-G10A1		C14-J05A
antiviral	B12-A06	Inks for ink-jets	A12-W07D1	negative cardiac	B14-F01C
	C12-A06		A12-W07D		C14-F01C
other	B12-D08	Inks	A12-W07D	positive	B14-J05C
	C12-D08	(polymeric) for printing	G02-A02A		C14-J05C
		dyes and pigments for	A12-W07E	positive cardiac	B14-F01B
			G02-A04B		C14-F01B
Infra-red		for ink-jet printers	A12-W07D1		
absorbers	B12-L08	magnetic	L03-B02H		
	B14-R05	removers	G02-A03C		
	C12-L08	writing inks, inks for pens	A12-D05B		
	C14-R05		G02-A04A		
detectors, semiconductors	L04-E05C	Inner transition metal compounds	B05-A03B		
dyes	E24-D		C05-A03B		
radiation sensitive systems	G06-F08+	inorganic	E34-E	Insect attractant	B14-B06
transparent glass	L01-L05	organic	E05-P		C14-B06
Ingot casting	M22-G02	Inner tubes of tyres	A12-T01+	Insect extracts	B04-B04M
methods	M22-G02A				C04-B04M
Ingot moulds, linings and hot tops	M22-G02B				

Insect repellents	A08-M02 B12-L06 B14-B05 C12-L06 C14-B05 D09-E02	Insulated wire	L03-A01B3	IFN beta	B04-H05B C04-H05B
		Insulating (acoustic and thermal)		IFN gamma	B04-H05C C04-H05C
		boards	L02-D15B	Interferon (substance) activity	B12-A06 C12-A06
		ceramic oxides	L02-G06	Interferon inducing	B14-G01A C14-G01A
fibre/fabric treatment		flexible sheets	L02-D15C	Interhalogen compounds	B05-C07 C05-C07
fibre/fabric treatment, non-resinous	A12-S05R F03-C02B	material compositions	L02-D15D	production	E31-B02 E31-B03
		panels	L02-D15	use	F01-H02 B14-L03
fibre/fabric treatment, resinous	A12-G F03-C02B	Insulating (electrical)		Interleukin agonist/mimetic	C14-L03 B14-L07
		cases and bodies	A12-E05	Interleukin antagonist/inhibitor	B14-L07 C14-L07
		ceramic oxides	L02-G05	Interleukins	
		layers for semiconductor devices (including passivating)	L04-C12	1	B04-H02A C04-H02A
Insect sterilants	B12-K03 B14-B07 C12-K03 C14-B07	layers on semiconductors		10	B04-H02L C04-H02L
		oxide	L04-C12A	11B04-H02M	C04-H02M C04-H02N
		oils	H08-D08	12	B04-H02N C04-H02P
Insecticide	B12-N02 C12-N02	oils, for cables	L03-A01B4	13	B04-H02P C04-H02Q
		oils, for capacitors	L03-B03D	14-20	B04-H02Q C04-H02Q
coleoptera (beetle)	B14-B04B1 C14-B04B1	tape	A12-E03	2	B04-H02B C04-H02B
dictyoptera (cockroach)	B14-B04B2 C14-B04B2	Insulation (acoustic and thermal)		21-25	B04-H02R C04-H02R
		in buildings	A12-R06 L02-D15	26-30	B04-H02S C04-H02S
diptera (house fly, mosquito, gnat)	B14-B04B3 C14-B04B3	pipe lagging	A12-H02D1	3	B04-H02C C04-H02C
ephemeroptera (mayfly)	B14-B04B4 C14-B04B4	polyurethane foam use in vehicle	A12-S02F A12-T04B	31-35	B04-H02T C04-H02T
hemiptera (aphid)	B14-B04B5 C14-B04B5	Insulation (electrical)	A12-E+	4	B04-H02D C04-H02D
hymenoptera (bee, ant)	B14-B04B6 C14-B04B6	tape	A12-E03	5	B04-H02F C04-H02F
lepidoptera (butterfly, moth)	B14-B04B7 C14-B04B7	wiring	A12-E02+ G02-A05A	6	B04-H02G C04-H02G
		Insulators (electrical)	L03-A	7	B04-H02H C04-H02H
		Insulin and derivatives	B04-B02D2 B04-J03A C04-B02D2 C04-J03A	8	B04-H02I C04-H02I
orthoptera (locust)	B14-B04B8 C14-B04B8	Intaglio printing plates	G05-A03	9	B04-H02K C04-H02K
siphonaptera (flea)	B14-B04B9 C14-B04B9	Integral skin foams	A12-S04E	general and other	B04-H02 C04-H02
Insecticide general	B14-B04B C14-B04B	Integrated circuits		Interlinings for garments	F04-C
		lead frames	L04-C23	Intermediate for unknown monomer	A01-F
Insecticides		photographically produced	G06-D06	Intermedin	B04-B02D4 B04-J05G C04-B02D4 C04-J05G
additives for polymers	A08-M02	polymer use in systems for	A12-E07C L04-F03		
for fabrics	F03-C02B	Integrated injection logic devices - I2L or IIL devices	L04-E06		
for wood	F05-B01	Integrated optical systems	L04-F04		
polymer agricultural use	A12-W04C	Integrin	B04-H21 C04-H21		
Insects	B04-P01C C04-P01C	Intensifying screen for X-ray materials	G06-A09		
Insert incorporation during moulding	A11-B	Interfacial			
Inspection of		(co)polycondensation	A10-D01		
fabrics	F03-K02	addition polymerisation	A10-B07		
glass	L01-J02	Interferon	B02-V03 C02-V03		
Instrumentation		general and other	B04-H05 C04-H05		
electrical	A12-E13	IFN alpha	B04-H05A C04-H05A		
for polymer processing					
equipment	A09-D+				
Instruments, musical	A12-W08				
Insulated non-metal conductors	A12-E02+ G02-A05A L03-A02A				

Intermingling of fibres	F01-H02	Ion exchange	J01-D04	Iron oxide pigments	A08-E02
Internal lubricants for polymers	A08-M03B	fibres	F04-E		G01-A05
Internal mixer for polymers	A11-A03A	non-ferrous metal		Ironing textiles	F03-J02
Internal oxidation of alloys		extraction	M25-B03	Irradiation	
ferrous	M24-D06	petroleum processing	H02-D01	addition (co)polymerisation	A10-B06
non-ferrous	M29-D	regeneration of exchanger	J01-D04A	crosslinking	A11-C02B
Interpenetrating polymer network	A07-A+	resins	A12-M+	graft copolymerisation	A10-C03C
Intestinal disease treatment	B14-E10C	tests	B11-C08D2	medical	K08-H01
	C14-E10C		C11-C08D2	polymer modification	A10-E10
Intestine splitting machines	D07-A	water purification by	D04-A01G	polymer surface treatment	A11-C04E
Intranasal delivery	B12-M01D	Ion implantation doping of semiconductor layers	L04-C02B	processes	B11-C01
	C12-M01D	Ion or plasma deposition apparatus for semiconductor manufacture	L04-D04		C11-C01
Introduction of substances into fermentation media	D05-A03	Ion plating	M13-E	Irradiation of food	E11-P
Intumescent agents for polymers	A08-B+	Ionene polymers	A05-J09		D03-H02C
	A08-F+	Ionising radiation		Irritable bowel treatment	B14-E10C
Invert sugar	B10-A07	addition			C14-E10C
	C10-A07	(co)polymerisation	A10-B06	Ischaemia treatment	
	D06-G	crosslinking	A11-C02B	cerebral	B14-F02D1
	E10-A07	graft copolymerisation	A10-C03C		C14-F02D1
Investment castings, patterns	A12-H05	polymer modification	A10-E10	coronary	B12-F02
Iodated/iodination of polymers	A10-E04A	Ionising radiation sensitive materials	A12-L+		B14-F01E
Iodide, vinyl		Ionising radiation stabilisers	A08-A02		C12-F02
(co)polymers	A04-E05	Ionomers	A10-E21B	general	C14-F01E
homopolymer	A04-E04	IPN	A07-A+		B14-F02D
monomer	A01-D12	Iridium catalysts	N02-E	muscle	B12-F07
Iodide, vinylidene			N02-E04		C12-F07
(co)polymers	A04-E07	for polymerisation	A02-A06	pulmonary	B12-K02
homopolymer	A04-E06	Iridium compounds	B05-A03B		B14-F02D2
monomer	A01-D12		C05-A03B		C12-K02
Iodine (or derivatives) - see also Halogen (or derivatives)		inorganic	E35-X	Island-in-sea fibres	C14-F02D2
Iodine catalysts	N04-D	organic	E05-N		A12-S05B
Iodine deficiency treatment	B12-G06		E05-N02B	Islets of Langerhans treatment	F01-E01+
	B14-N11	Iron			B14-N13
	C12-G06	based powder cores,		Isobenzofuran	C14-N13
	C14-N11	powders	L03-B02A1		B06-A02
Iodine isotopes	B05-A04D	electrodeposition	M11-A06A		C06-A02
	C05-A04D	melt treatment	M24-C	Isobutene	E06-A02
Iodo - see also Halo		powder preparation for magnetic purposes	L03-B02A1	(co)polymers	E10-J02C
Iodohydrogenated/iodohydrogenation of polymers	A10-E04	processing	M24-B01	monomer	A04-G05+
Iodonium compounds	B10-A01	production	M24-A		A01-D13
	C10-A01	Iron catalysts	N02-A	Isobutene-isoprene copolymer (butyl rubber)	A04-G05A
organic	E10-A01	element	N02-A01	Isobutyl acrylate	
Iodostyrenes		oxide	N02-A01	(co)polymers	A04-F06+
(co)polymers	A04-C	Iron chloride polymerisation catalyst		monomer	A01-D10B
monomer	A01-D02	Friedel Crafts	A02-A04	Isobutyl alpha-chloroacrylate	
Iodosulphonated/iodosulphonation of polymers	A10-E12B	other	A02-A06B	(co)polymers	A04-E
Ion beam etching of semiconductors	L04-C07A	Iron compounds	B05-A03A2	monomer	A01-D10
Ion channel proteins	B04-N07		C05-A03A2	Isobutyl cyanoacrylate	
	C04-N07	inorganic	E35-U	(co)polymers	A04-D
		organic	E05-L02	monomer	A01-D04
		pigments or fillers	E05-L02A		A01-D10
			G01-A05	Isobutyl methacrylate	
				(co)polymers	A04-F06+
				monomer	A01-D10B

Isobutyl vinyl ethers		Isophthalic acid	B10-C02	Isotope separation	J01-J
(co)polymers	A04-F11		C10-C02	Isotopes of non-metal	
monomer	A01-D11		E10-C02C	(free element)	B05-A04+
Isobutylene	E10-J02C		E10-C02C1		C05-A04+
(co)polymers	A04-G05+		E10-C02C2		E31
monomer	A01-D13	condensant	A01-E11	Isotopic labelling	K09-E
Isocitric acid	E10-C02A	saturated polyesters		Isourea	B10-A13B
Isocyanate		based on	A05-E03		C10-A13B
based resin adhesives	A12-A05F	Isoprene	E10-J02C		E10-A13B
	G03-B02E4	butyl rubber	A04-G05A		E10-A13B1
condensants	A01-E02	copolymers (excluding			E10-A13B2
crosslinking agents for		butyl rubber) with		Isoxazole	B07-E01
ethylenically		isobutylene	A04-B07		C07-E01
unsaturated polymers	A08-C09A	homopolymer	A04-B06		E07-E01
crosslinking agents for		monomer	A01-C05	Itaconic acid	
others	A08-D04A	Isopropenyl methyl ketone		addition (co)polymers	A04-F05
inorganic	B05-C03	(co)polymers	A04-F03	monomer/condensant	A01-D08
	C05-C03	monomer	A01-D05		A01-E12
	E32-B	Isopropenyl nitrile		Itaconic acid ester	
organic	B10-A14	(co)polymers	A04-D03+	addition (co)polymers	A04-F07
	C10-A14	homopolymer	A04-D02+	monomer	A01-D10
	E10-A14	monomer	A01-D04		A01-E12
	E10-A14A	Isopropyl acrylate		Ivermectin	B02-A
	E10-A14B	(co)polymers	A04-F06+		C02-A
vinyl (co)polymer	A04-D	monomer	A01-D10B	Izod impact strength of	
vinyl, monomer	A01-D07	Isopropyl alpha- chloroacrylate		polymers	A09-A05A
Isocyanide (inorganic)	B05-C03	(co)polymers	A04-E		
	C05-C03	monomer	A01-D10		
	E32-B	Isopropyl cyanoacrylate			
Isocyanide (organic)	B10-A15	(co)polymers	A04-D		
	C10-A15	monomer	A01-D04		
	E10-A15A		A01-D10		
Isocyanuric acid, glycidyl		Isopropyl methacrylate			
derivatives of	A05-A04	(co)polymers	A04-F06+		
Isoindole	B06-D03	monomer	A01-D10B		
	C06-D03	Isopropylidene acetone			
	E06-D03	(co)polymers	A04-F03		
Isomerase	B04-B02C6	monomer	A01-D05		
	B04-L07	Isopropylidene bisphenols			
	C04-B02C6	condensants	A01-E13		
	C04-L07	Isoquinoline	B06-D03		
agonists	B14-L01A5		C06-D03		
	C14-L01A5		E06-D03		
enzyme processes	D05-A01B5	Isothiazole	B07-F01		
	D05-A02E		C07-F01		
inhibitors	B12-G01B5		E07-F01		
	B14-D09	Isothiocyanate (organic)	B10-A14		
	C12-G01B5		C10-A14		
	C14-D09		E10-A14		
production by			E10-A14A		
fermentation	D05-C03F		E10-A14B		
Isomerisation process	B11-C01	Isothiocyanate condensants	A01-E02		
	C11-C01	Isothiourea	B10-A13A		
	E11-J01		C10-A13A		
gasoline production	H04-D03		E10-A13A		
Isomers of natural rubber	A03-B		E10-A13A1		
Isophorone diamine			E10-A13A2		
condensant	A01-E05	Isotope containing compounds	B05-A04+		
Isophorone diisocyanate			C05-A04+		
condensant	A01-E02	inorganic	E31		
		organic	E05-R		

## J

Jackets	F04-C03
Jam	D03-H01V
Jacquard weaving	F02-A02
Jars, polymer use	A12-P06A
Jasmolin	B04-A07C
	C04-A07C
Javanicin	B02-J
	C02-J
Jelly	B12-M03
	C12-M03
Jersey fabrics	A12-S05H
	F02-B02
Jet crimping	F01-H04C2
Jet engines	A12-T03+
Jet fuel	A12-T03+
	H06-B03
Jet ink	G05-F03
Jet inks	A12-W07+
	G02-A04
Jet looms	F02-A04B
Jewellery	A12-F
Joining	L03-A01B2
cables	
fabric lengths	F03-K
glass and metal	L01-H04A
glass by sealant	L01-H07
glass to ceramic	L01-H04B
glass to glass	L01-H03
glass to non-glass by	
fusion (excluding	
vitreous enamelling)	L01-H04
glass to non-glass with	
interlayer	L01-H05
optical glass fibres	L01-F03H
Joint disorders	B14-S14
	C14-S14
Joining compositions	G04-B02
Josephson junction elements	L04-E09
Jumpers of fabric	F04-C03
Junction field effect transistors (JFET)	L04-E01A1
Juvenile hormone	B04-J17
	C04-J17
Juvenile hormone activity	B12-G04
	B14-D01E
	C12-G04
	C14-D01E

## K

Kallikrein	B04-B02C3
	B04-L05C
	C04-B02C3
	C04-L05C
Kanamycin	B02-K
	C02-K
Kaolin	E31-P
	G01-A10
filler	A08-R06B
Kapton®	A05-J01+
Keratin	A03-C01
	B04-B04A6
	B04-N02
	C04-B04A6
	C04-N02
Kerosene	H06-B02
Ketal (non-heterocyclic)	B10-A23
	C10-A23
	E10-A23
	E10-A23A
	E10-A23B
Ketalised polymers	A10-E02
Ketals, polyvinyl	A10-E02
Ketenes	E10-F02
Ketomethylene, photographic	
couplers	G06-H08C
Ketone	B10-F02
	C10-F02
	E10-F02
	A01-E10
condensants	
monomers (mono-	
unsaturated, aliphatic)	A01-D05
polymers	A04-F03
thio	B10-F01
	C10-F01
	E10-F01
Ketone condensation polymers	
with amides/amines	A05-B
with other condensants	A05-J08
with phenols	A05-C
Kevlar®	A05-F05
Kickers for blowing agents	A08-B
Kidney extracts	B04-B04H
	C04-B04H
Kidney machines (polymer use)	A12-V02
	A12-V03B
Kidney treatment	B12-G03
	B14-N10
	C12-G03
	C14-N10
Killing ferrous melt	M24-C03
Killing insects (in a room)	D09-B06

## Kilns

rotary for calcining raw	
ceramic materials	L02-A02
rotary for clinkering cements	L02-C02
tunnel for sintering ceramics	L02-A04
kinases	B04-L04C
	C04-L04C
Kitchenware	A12-D03
Kneading of polymers	A11-A03+
Knees, artificial	A12-V02
	D09-C01D
Knit-deknit crimping of fibres	F01-H04C
	F02-B03
Knitted fabrics	A12-S05H
	F02-B02
Knitting	
machine accessories	F02-B04
machines	F02-B03
methods	A11-C05A
	F02-B03
warp	F02-B03A
weft	F02-B03B
Knives (tableware)	A12-D03
Knop yarn	F01-E
Knotted carpets	F02-E03
Knotting	F02-E03
Knotting of fibres to join ends	F01-H03B
Kodachrome® type colour	
materials	G06-C02
Krypton (element)	B05-B02C
	C05-B02C
	E31-J
Krypton compounds	
inorganic	B05-B02C
	C05-B02C
	E31-J
organic	B05-B02C
	C05-B02C
	E05-K
Kurchatovium compounds	B05-A04
	C05-A04
inorganic	E35-R
organic	E05-Q
Kuru disease treatment	B14-N16C
	C14-N16C

## L

L.O.I of polymers	A09-A01	natural polymers	A12-B01D	Ladles, casting	M22-G03G
Lab-on-chip	J04-B02	organic film formers	G02-A02A	Lagging for pipe, tube, hose	A12-H02D1
	L04-E01H	other addition polymers	A12-B01C	Lamb	D02-A03B
Labelling of textiles	F04-F04		G02-A02D+	Laminated	
Labelling system for foodstuff	D03-K11	other addition polymers,		film	A12-S06C+
Labelling with isotope	K09-E	unsaturated aromatic		for packaging	A12-P01A
Labels	A12-P	(styrenic) polymers	G02-A02D4	glass	L01-H02
	A12-W03	other addition polymers,		sheet	A12-S07A
Laboratory		vinyl ester or unsaturated		Laminates	
(meth)acrylamide		acid polymer excluding		decorative	A12-A04A
(co)polymer	A04-D04A1	acrylic	G02-A02D3	fabric/fibre reinforced	A12-S08A
apparatus and methods	J04-B	other addition polymers,			F03-D
applications of glass	L01-L03	vinyl halide polymer	G02-A02D2	film	A12-S06C+
control, sampling and		other additional polymers,		phenol-formaldehyde	
testing	J04-C	diene or polyene polymers	G02-A02D1	resin in	A05-C03A
equipment	A12-L04+	phenoplasts	A12-B01J	phenolic resin in	A05-C01B1
use in PVA, use in	A10-E09B2		G02-A02F	reinforced plastics	A12-S08A
Labour inducing	B12-E09	polyesters	A12-B01H	sheet	A12-S07A
	B12-G04		G02-A02E	unsaturated polyester in	A05-D02E1
	B14-P01B	polymers (general)	A12-B01+	unspecified	A12-A04D
	C12-E09	polyurethane	A12-B01K	Laminating	A11-B05+
	C12-G04		G02-A02H		A11-B09+
	C14-P01B	silicone	A12-B01C	adhesive, of fabrics	F03-D+
			G02-A01A	board (chip-, fibre-, card-)	F03-D01
		synthetic polymers (general)	G02-A02B	production	A11-B09B
Lace casting process of		Lacquers	A12-B+	decorative laminates	
polymers	A11-B04C		G02-A+	production	A11-B09B
Lace production	F02-E01	additives for	G02-A03+	fibre reinforced plastics	
Laces, shoe	A12-C04	chemical removers for	G02-A03C	production using	
Lacquer, based on	A12-B01E	general addition polymer	A12-B01W	moulds/extrusions	A11-B09C
	A12-B01E	general condensation		filament winding	A11-B09C
acrylics	G02-A02C+	polymer	A12-B01X	flame of fabrics	F03-D02
acrylics containing acrylic		organic pigment used in	G02-A03A	non-fibrous bodies (film,	
acids	G02-A02C4	polymeric	A12-B01+	sheet etc.)	A11-B09D
acrylics containing acrylic		polymeric, solvent based	A12-B01B	process for fabrics	F03-D+
amides	G02-A02C4	polymeric, water based	A12-B01A	to form specific goods	A11-B09A+
acrylics containing acrylic					A12-E11
nitriles	G02-A02C4	Lactam		Lamps	
acrylics containing		condensants	A01-E04	discharge, luminescent	
aminoalkyl acryl	G02-A02C3	derived polyamides	A05-F03	envelope for	L03-C04B
acrylics containing		dye precursor	E26-B	discharge, structural	
diacrylates	G02-A02C4	Lactides condensants	A01-E11	parts for	L03-C03
acrylics containing epoxy	G02-A02C1		A01-E12	incandescent	L03-C05
acrylics containing			A01-E14	shades for	A12-L03
hydroxyalkyl acrylates	G02-A02C2	Lactones		Landfills	
acrylics containing		condensants/monomers,		waste storage	J10-A
polyacrylates	G02-A02C4	(cyclo)aliphatic	A01-E12	Lanolin	B04-B01B
alkyd resins	A12-B01H		A01-E14		C04-B01B
	G02-A02E	condensants/monomers,		Lanthanide (-um) compounds	B05-A03B
aminoplasts	A12-B01J	aromatic	A01-E11	containing glass	C05-A03B
	G02-A02F	dye precursor	A01-E14	inorganic (general)	L01-A02A
epoxy resins	A12-B01L	saturated polyesters	E26-B	inorganic (other than	E34-E02
	G02-A02G	derived from	A05-E02	cerium)	E34-E02B
general addition polymers	A12-B01W	Lactose	D06-G	organic	E05-P
general condensation			E07-A02	Lanthanide (-um), production	M25-G21
polymers	A12-B01X	in compositions	B04-D01	Lanthanide catalysts	
inorganic film formers	A12-B01C		C04-D01	general	N03-A02
	G02-A01+	production	B07-A02	lanthanoids (other than	
			C07-A02	cerium)	N03-A02B

Lanthanum catalysts	N03-A01	Lay-flat film	A12-S06+	LED, polymer use	A12-E11A
Lasers		Lay-up of fibre reinforced plastics	A11-B09+	Fluorescent and luminescent materials for semiconductor manufacture	L03-G09G
annealing in		to form specific goods	A11-B09A+	Light emitting diodes	L04-E03A
semiconductor production	L04-C16B	Laying of textile webs	F03-K01	Legs, artificial	A12-V02
beams for electric welding and cutting	M23-D05	LCD, polymer use	A12-L03B		D09-C01D
compositions	L03-F02A	sealant materials(resins)	L03-G05B5A		
	Oxide compositions	LDPE	A04-G02+	Length metering, in winding of fibres	F01-H03B
	L02-G10B	Leaching (non-ferrous metal extraction)	M25-B	Lenses	A12-L02A
construction and design	L03-F02B	Lead alloys	M26-B04	coating	L01-G04D
fluorescent and luminescent materials for semiconductor manufacture	L03-G09G	Lead catalysts	N03-G04	contact	A12-V02A
polymerisation initiated by	A10-B06	Lead compounds	B05-A02	spectacle	D09-C01A
	A10-C03C		C05-A02		A12-L02A
	A10-D+	inorganic	E35-J		A12-V02A
recording devices	A12-L03C	organic	E05-F02	Leprosy treatment	B12-A03
	G06-D07	pigment/filler	E05-F02C		B14-A01B1
semiconductor type	L04-E03B	Lead for pencils	G01-A04		C12-A03
Latensification	G06-G04		A12-D05B		C14-A01B1
Latent image transfer process, electrophotographic	G06-G08D		G02-A04	Letterpress printing plates	G05-A02
Latex (latexes, latices)	A07-B+	Lead frame attachment to semiconductor and other devices	L04-C24	Leuco base (general)	E26
paints	A12-B01A	Lead frame manufacture for semiconductor devices and integrated circuits	L04-C23	Leuco dyes (dye precursor) for dyeing/printing fibres	E26
	G02-A+	Lead oxide, glass composition	L01-A03C1	for heat sensitive systems	F03-F23
rubber	A07-B01	Lead production	M25-G14	Leukaemia treatment	G06-F08A
Laundering	F03-J+	Lead recovery from battery electrodes	L03-E01B1		B12-G05
compositions	D11	Lead removal from waste water	D04-B05		B14-H01A
	F03-J03		D04-B05A	Leukocytes	C12-G05
	Laundry detergent compositions	Leads and terminals preparation	L03-A01B5		C14-H01A
	D11-D01H	Leasing	F02-A01	Leukosis treatment	B12-G05
Lauro lactam condensant	A01-E04	Leather			B14-H01A
Lauroyl peroxide		artificial, general	A12-B02A		C12-G05
catalyst for polymerisation	A02-A01		F04-B01+	Leukotrienes	C14-H01A
crosslinker for addition		chemical treatment	D07-B		B04-H03F
(co)polymers	A08-C05	coatings on	A12-B02A	agonist/mimetic	C04-H03F
crosslinker for other polymers	A08-D	coatings on natural	A12-B06		B14-L04
redox catalyst for polymerisation	A02-A03	mechanical treatment	D07-A	antagonist/inhibitor	C14-L04
Lauryl acrylate		waste	B04-B04E		B14-L08
(co)polymers	A04-F06+		C04-B04E	Levelling agents for electroplating	C14-L08
monomer	A01-D10B	with polyurethanes	F04-B01A		M11-B01
Lauryl methacrylate		with polyvinyl chloride	F04-B01B	Levomycetin (chloramphenicol)	B02-C01
(co)polymers	A04-F06+	Leathercloth	A12-B02A		C02-C01
monomer	A01-D10B		F04-B01	Lewis acid polymerisation catalyst	A02-A04
Lavatory		Leaves (of plants)	B04-A07D5	Lewis acid, metal halide catalyst	N04-D01
cleaners	D11-D01D		B04-A09A	Lexan®	A05-E06+
ware	A12-R02		C04-A07D5	Lichen controlling	B12-P07
Lavsan®	A05-E04+	extracts	C04-A09A		C12-P07
Lawrencium compounds	B05-A04		B04-A10B		
	C05-A04		C04-A10B		
inorganic	E35-R	Lecithin	B04-B01B		
organic	E05-Q		B05-B01P		
Laxatives	B12-J07		C04-B01B		
	B14-E09		C05-B01P		
	C12-J07				
	C14-E09				



Lids for containers	A12-P03	Lime (calcium oxide, hydroxide)	E34-D01	display devices,	
Ligase	B04-B02C7	by-product	L02-B04	(electro)photographic	
	B04-L08	production	L02-B01	production of	G06-D06B
	C04-B02C7	Limestone (calcium carbonate)	E34-D03	mixtures	L03-G05B2
	C04-L08	production	L02-B01	properties	A09-A02A
agonists	B14-L01A6	Limiting oxygen index of		Liquid detergent compositions	D11-D07
	C14-L01A6	polymers	A09-A01	dishwashing detergents	D11-D07D
inhibitor	B12-G01B6	Lincomycin	B02-L	laundry detergents with	
	B14-D10		C02-L	bleach (stain removers)	D11-D07C3
	C12-G01B6	Linear low density		laundry detergents with	
	C14-D10	polyethylene (LLDPE)	A04-G06+	special use	D11-D07C
Ligase enzyme process	D05-A01B6	Linear polyethylene (HDPE)	A04-G02+	Light duty liquid laundry	
	D05-A02F	Linen, fabric use		detergents	D11-D07B
Light concrete	L02-D03	bed	F04-D01	liquid soap type (hand	
Light emitting:		table	F04-D02	washing compositions)	D11-D07F
diodes	L04-E03A	Liners (well equipment)	H01-C07	Liquid etching of metal,	
fluorescent and luminescent materials		Lining of pipes, processes	A11-B09A+	compositions	M14-A03
L03-G09G		Linings for		Liquid fabric softeners	D11-B15B
luminescent and fluorescent compositions		casting ladles	M22-G03G2		F03-C05
L02-G10A		casting moulds	M22-A04	Liquid food, testing and	
semiconductor devices	L04-E03	drums (packaging)	A12-P05	monitoring	D03-K03
Light irradiated/irradiation		furnaces	M22-G03G2	Liquid freezing	J07-B
of polymer for		garments	F04-C	Liquid metal coolants (for	
chemical modification	A10-E10	hoses	A12-H02D+	nuclear reactor)	K05-B03A
crosslinking	A11-C02B	ingot moulds	M22-G02B	Liquid metal cooled	
Light receiving and detecting		iron and steel apparatus	M24-A05A	reactor processes	K05-A02C
devices (semiconductor)		oil wells	A12-W10C	Liquid particle separation	J01-F
general	L04-E05	pipes	A12-H02D+	Liquid personal face and body wash	D08-
Light stabilisers		tanks	A12-P05	B09A2A	
fabrics	F03-C07	tubes	A12-H02D+	Liquid petroleum fuel	H06-B
polymers	A08-A03	Linoleum	F04-B02	Liquid phase	
Light, photographic		Lip gloss	D08-B01	chromatography	J01-D01A
exposure to	G06-G18		D08-B01B	deposition apparatus for	
Light, polymerisation		Lip liner	D08-B01	semiconductor processing	L04-D03
initiated by	A10-B06		D08-B01B	epitaxial growth of	
	A10-C03C	Lipid	B04-B01B	semiconductor layers	L04-C01C
	A10-D+		C04-B01B	etching of semiconductors	L04-C07C
Light-induced adhesive		Liposome	B12-M11F	Liquid skin care formulations	D08-B09A1A
photographic systems			C12-M11F	Liquid soap	D11-C01C
developed with toner	G06-C	Liposome site-specific release	B12-M10E1	Liquid toning,	
Light-sensitive			C12-M10E1	electrophotographic	G06-G06
dyes for radiation		Lipoxygenase	B04-L03E	Liquid-gas mass transfer	J01-A02
sensitive systems	G06-F05		C04-L03E	Liquids, application to surfaces	J02-C
microencapsulated		Lipstick	A12-V04C	Liquids, treatment with	
compositions	G06-C16		D08-B01	adsorbents	J01-D01
photographic materials	A12-L+		D08-B01B	Liquids, Biological treatment	J01-D07
polymer compositions for		Liquefaction of natural gas	H01-F02	Liquids, materials for filtering	J01-H02A
radiation sensitive systems	G06-F03+	Liquefied gas vessels	J06-B1	Liquids, vessels for storing	J06-B
Lighters, chemical	K04-B02	Liquefied natural gas	H06-A02	Lithium catalysts	N01-A
Lighting, electrical	A12-E11	Liquefied petroleum gases	H06-A01	Lithium compounds	B05-A01B
	L03-H04A	Liquefying gases	J07-D01		C05-A01B
Lightning arresters	L03-B04E	for separation	J07-D02	inorganic	E35-G
Lignin	A03-C02	Liquid crystals	A12-L03B	organic	E05-A
	B04-C03D		G04-B		E05-A01
	C04-C03D		L03-G05B1	Lithium halide polymerisation	
Lignite	A03-C03		L03-G05B4	catalyst	A02-A07+
Lignosulphonate	A10-E12A	additives	A12-L03B	Lithographic films or papers	G06-D02
	B04-C03D	display devices	L03-G05A	Lithographic printing plates	G05-A01
	C04-C03D			produced	
Limbs, artificial	A12-V02	display devices,		photographically	A12-W07B
	D09-C01D	components for	L03-G05B		G05-A01
					G06-D05+

Liver extract	B04-B04H	Lubricants		Lung disease treatment	B12-K06
	C04-B04H	additives	H07-G		B14-K01
Liver fluke treatment	B12-B06	ceramic oxide	L02-G08		C12-K06
	B14-B03	coatings (oil free) for metal	M13-H		C14-K01
	C12-B06	containing oxygen	H07-A02	Lures	B12-N03
	C14-B03	extremely high viscosity oils	H07-B01		B14-B14
Liver treatment	B12-G02	for electrical components	H08-E04		C12-N03
	B14-N12	for fibres	A12-S05S		C14-B14
	C12-G02		F01-H06+	Luteinising hormone- releasing hormone	B04-J07
	C14-N12	for metal working	M21-B03		C04-J07
Liverworts	B04-A08A		H08-D07	Lutenising hormones	B04-B02D4
	C04-A08A	for polymers	A08-M03+		B04-J05H
LLDPE (linear low density polyethylene)	A04-G06+	for refrigerators	J07-A09		C04-B02D4
Lobed fibres	A12-S05A		H08-D11		C04-J05H
	F01-E02	for rolling	M21-A06	Lutetium compounds	B05-A03B
Looking glasses	A12-L03		H08-D07		C05-A03B
Looms		gaseous	H07-E	catalysts	N03-A02B
conventional	F02-A04A	layers in magnetic recording	L03-B05K3	inorganic	E34-E02B
jet, rapier	F02-A04B	mineral oil based	H07-B	organic	E05-P
shedding mechanisms	F02-A02	of vegetable origin	H07-A01	Lyase	B04-B02C5
shuttleless	F02-A04B	photographic	G06-H17		B04-L06
weaving methods	F02-A04+	polymeric	A12-W02		C04-B02C5
Lorries	A12-T+	production	H07-L		C04-L06
Lost patterns	M22-C01	refrigeration	H08-D11	agonists	B14-L01A4
Lost wax process	M22-G03N	semi-solid and solid	H07-D		C14-L01A4
Lotions		synthetic	H07-A	inhibitor	B12-G01B4
cosmetic	A12-V04+	treatment of fabrics	A12-S05S		B14-D08
	D08-B		F03-C05		C12-G01B4
pharmaceutical	A12-V01	Lubrication systems	H07-F		C14-D08
	B12-M02B	Luggage	A12-T	processes	D05-A01B4
	C12-M02B	Luminescent			D05-A02D
Loudspeakers	A12-E12	ceramic oxides	L02-G10A	production by fermentation	D05-C03E
	L03-H02	compositions for		Lycra ® fibres	A05-G+
Low alkali glass	L01-A01C	discharge lamp or			A12-S05+
Low calorie		tube surfaces	L03-C02C	chemical features of	F01-D07
beer	D05-B02	compounds containing		dyeing/printing	F03-F10
food	D03-H01T3	metals	E24-A06A	Lymphatic disease treatment	B14-F02E
Low carbohydrate food	D03-H01T3B	cosmetic pastes	D08-B01		C14-F02E
Low density polyethylene	A04-G02+	dyes containing metals	E24-A06A	Lymphocytes	B04-B04D1
Low fat food	D03-H01T3A	dyes (gen.)	E24-A06		B04-F04
Low pressure polyethylene	A04-G02+	heterocyclic dyes	E24-A06B		C04-B04D1
Low silica glass	L01-A04	envelopes and screens	L03-C04		C04-F04
Low temperative detergents	D11-D01F	materials	G04-A	Lymphotoxin (LT)	B04-H13
Lozenges	A12-V01	materials for semiconductor manufacture	L03-G09G		C04-H13
	B12-M11	others dyes	E24-A06C	Lyophilised form	B12-M11P
	C12-M11				C12-M11P
				Lyotropic property of optically anisotropic polymer solutions	A09-A02A
				Lysergic acid (or derivative)	B04-A03
					C04-A03

## M

Macaroni	D01-B02E	other non-metallic compositions	L03-B02B6	supports for, polymeric tapes	L03-B05L1 A12-E08A1 C02-A05B1 L03-B05A L03-B05G
Machines for		pigments	L03-B05D1		
food	D03-J D03-K	pigments, treatment of plastic	L03-B05D2 L03-B02B4	vertical	L03-B05F
processing polymers	A11-A+ A11-B+ A11-C+	plates, discs	L03-B05B	Magneto-optical layers in magnetic recording	L03-B05F
producing pharmaceutical, veterinary or agricultural compositions	B11-C05 C11-C05	polymer	L03-B02B4	Magneto-optical recording devices	G06-D07 C02-A05B1
use on (or in) an animal body	B11-C04 C11-C04	polymer composite particles	L03-B02B4A	layers	G05-F
Machining		properties of polymers	A09-A04	Magnetography	L03-G05H
electrolytic	M23-D06	separation of solids	J01-K02	Magnetophoretic display	A12-E08B
polymers	A11-A05+	tapes	A12-E08A1 L03-B05A	Magnetos	L03-G09I
spark or electro-erosion	M23-D06			Magnetostrictive materials	A12-E08 L03-B
Macrame	F02-E03	Magnetic alloys	L03-B02A	Magnets	A12-V04+ D08-B01 D08-B01C D08-B01A B14-P04A C14-P04A
Macrocylic dyes, pigments	E23	containing rare earth metals	L03-B02A5	Make up (cosmetics)	
Mad cow disease		not based on iron, cobalt, nickel or rare earth metals	L03-B02A6	Eye make up	
treatment	B14-N16A C14-N16A	Magnetic layers	L03-B05J	Male sexual dysfunction	
Magnesia	E34-B	binders	L03-B05D4		
by products	L02-B04	metal plating	L03-B05E	Maleate, diallyl (co)polymers	A04-A03 A01-B03
production	L02-B02	non-metallic additives	L03-B05D3	Maleic acid esters (monoolefinic) (co)polymers	A04-F07 A01-D10 A01-E12
Magnesium		Magnetic liquids	L03-B02B5	Maleic acid/anhidride (co)polymers	A04-F05 A01-D08 A01-E12
alloys	M26-B10	ferrofluids	L03-B02B5A	Maleic anhydride	E07-A01
catalysts	N01-B	magnetic colloids	L03-B02B5A	Maleic esterified polymer	A10-E07A
cement	L02-C04	magnetorheological	L03-B02B5B	Maleimides (co)polymers	A04-D09 A01-D01
Magnesium carbonate board	L02-D07	magnetoviscous	L03-B02B5B	Maleinised rosin	A10-E23
Magnesium compounds	B05-A01B C05-A01B	Magnetic materials	L03-B02	Malnutrition treatment	B14-E11C C14-E11C
inorganic	E34-B	application - other	L03-B02X	Malt	B04-A07F B04-A09F C04-A07F C04-A09F
organic	E05-B01	for automotive application	L03-B02J	Malting grain	D05-B01A
pigments/fillers	G01-A01	for coils	L03-B02F	Maltose	D06-G E07-A02 B04-D01 C04-D01
Magnesium production	M25-G16	for engineering application	L03-B02J	in compositions	B07-A02 C07-A02
Magnetic		for inductances	L03-B02C	Mammary gland	B14-N18 B14-N18
alloy	L03-B02A	for inks	L03-B02H	Mammalian extracts (general)	B04-B04L C04-B04L
barium ferrite base		for lacquers	L03-B02H	Mammotrophin	B04-B02D4 B04-J05 C04-B02D4 C04-J05
compositions	L03-B02B1	for medical application	L03-B02G		
bubbles, dots, cores	L03-B06	for motors	L03-B02E		
ceramic oxides	L02-G07A	for paints	L03-B02H		
colloids	L03-B02B5A	for pharmaceutical application	L03-B02G		
devices, polymer use	A12-E08+	for transformers	L03-B02D		
ferrofluids	L03-B02B5A	Magnetic polymers and plastics	L03-B02B4		
garnets	L03-B02B3	composite particles	L03-B02B4A		
heads	L03-B05M	Magnetic recording			
heads, non-metallic gap		coatings on supports			
fillers, insulation	L03-B05N	forming the support on otherwise unsuitable			
inorganic composite	L03-B02B6A	material	L03-B05L3		
liquid compositions	L03-B02B5	discs	A12-E08A2		
metal	L03-B02A	dispersions used in layers	L03-B05D G02-A05B1 L03-B05D		
material, coating		layers, backing	L03-B05K2		
compositions for non-metals	G02-A05B L03-B02B	layers, lubricant	L03-B05K3		
other ferrites	L03-B02B2	layers, magneto-optical, thermomagnetic	L03-B05F L03-B05K1 L03-B05C		
		layers, protective media	L03-B05C		
		polymer use	A12-E08A+		
		security documents use	L03-B05H		
		supports for	L03-B05L		
		supports for, metal	L03-B05L2		

Manganese alloys	M26-B	Mastics	A12-R08	cellulose ethers	A03-A04A1
Manganese catalysts	N03-E		G04-B02		B04-C02A2
for polymerisation	A02-A06+	Mastitis treatment	B14-N18		C04-C02A2
Manganese compounds	B05-A03A1		C14-N18	polyamides	A05-F01E3
	C05-A03A1	Matches	A12-T03A		B04-C03D
inorganic	E35-S		K04-D		C04-C03D
organic	E05-L03	Material handling (polymers)	A11-C06	polyethylene	A04-G02E3
	E05-L03A	Mats, sport	A12-F01A		B04-C03B
Manganese production	M25-G17	Matting agents (photographic)	G06-H16		C04-C03B
Manifolds for forming fibres	F01-C01	Matting agents for polymers		polypropylene	A04-G03E1
Manufacture, tyre equipment	A12-T01A	inorganic	A08-E02		B04-C03B
Manufacturing processes,		organic	A08-E03C		C04-C03B
for polymer articles	A11-B+	Mattresses	A12-D01	PVA	A10-E09B2
	A11-C+	Mayonnaise	D03-H01H		B04-C03B
Marble, artificial	A12-R01	MDI condensants	A01-E02		C04-C03B
Margarine	D03-C	Measuring purity of water	D04-A01H	silicone polymers	A06-A00E3
margarine	D03-C02	Measuring, electrical	A12-E13		B04-C03
Mariculture	A12-W04+	Measuring, non-electrical	A12-L04B		C04-C03
Marine drilling equipment	H01-B01	Meat paste	D02-A03B	Medical, surgical, polymer use	A12-V+
drill ships	H01-B01C	Meat preservation	D03-A01	Medicine	
Fixed multi-well platforms	H01-B01A	Meat processing	D02-A	nuclear applications to	K09-B
mobile jack-up platforms	H01-B01B	Meat products	D02-A03	Medicines, polymer use in	A12-V01
semi-submersible		Meat substitutes	D02-A03E	Medullary reflex active	B12-E01
platforms	H01-B01D	Mechanical			C12-E01
Marine production equipment,		etching of metal	M14-A01	Megakaryocyte potentiator	B04-H12
for oil and gas	H01-D05	finishing of fibres and yarns	F01-H		C04-H12
Marine production platforms		properties of polymers	A09-A05+	MEK condensants	A01-E10
Decommissioning	H01-B01E	purification of paper pulps	F05-A03	MEK peroxide	
Marine storage and transport,		relaxation or stabilisation		catalyst for polymerisation	A02-A01
for oil and gas	H03-D	of fabrics	F03-A02	crosslinking agent for	
Marker buoys	A12-T	testing of properties	J04-C02D	addition (co)polymers	A08-C05
Marker gene	B04-E12	tools	A12-H	crosslinking agent for	
	C04-E12	Mechanical engineering	A12-H+	other polymers	A08-D
Marketing textiles	F03-K	Mechanical engineering, use of		redox polymerisation catalyst	A02-A03
Marking defective		polyamides	A05-F01E2	Melamine	E07-D13
semiconductor devices	L04-C19	polyethylene	A04-G02E4	condensant	A01-E01
Marking inks	A12-D05B	polyurethanes	A05-G01E2	formaldehyde resin	A05-B02
	G02-A04+	PTFE	A04-E08B	Melanin	B04-B04E
Markings, road	A12-R	PVC	A04-E02E1		C04-B04E
	G02-A05F	reinforced polymers	A12-S08D1	Melanin concentrating	
Marmalade	D03-H01V	silicon polymers	A06-A00E2	hormone	B04-J19
Masers	L03-F01				C04-J19
Mask design and manufacture		Mechanical treatment of		Agonists	B14-D01E2
in semiconductor processing	L04-C06A	fabrics	A12-S05U		C14-D01E2
Masking materials in			F03-A+	Antagonists	B14-D02E2
semiconductor processing	L04-C05	fibres	F01-H		C14-D02E2
Masking methods		fibrous raw material in		Melanin concentrating	
(photographic)	G06-E02	papermaking	F05-A01	hormone receptor	B04-K01Y1
Masking techniques (for		natural fibrous material	F01-A+		C04-K01Y1
semiconductors)	L04-C06	natural fibrous material,		Melanocortin agonists	B14-D01E1
Masonry, coating		animal fibres	F01-A01		C14-D01E1
compositions for	G02-A05F	natural fibrous material,		Melanocortin antagonists	B14-D02E1
Mass colouring of polymer	A11-A01+	mineral fibres	F01-A03		C14-D02E1
Mass spectroscopy testing	B11-C08A	natural fibrous material,		Melanocyte stimulating	
	C11-C08A	vegetable fibres	F01-A02	hormone	B04-B02D4
	J04-B01A1	Mechanisms, loom shedding	F02-A02		B04-J05G
	GC-MS	Medical equipment	A12-V03+		C04-B02D4
	J04-B01C5A	Medical products (textiles)	F04-E04		C04-J05G
Mass transfer (liquid-gas)	J01-A02	Medical use of (meth)acrylate		Melanophoric hormone	B04-B02D4
Masterbatching with polymers		(co)polymers	A04-F06E5		B04-J05G
of additives	A11-A03+		B04-C03B		C04-B02D4
of pigments	A11-A01+		C04-C03B		C04-J05G
Masticating of polymers	A11-A03+				

Melt		Merocyanine/ neutrocyanine spectral sensitisers	G06-H07B	Metal-organic framework	
adhesives	A12-A+	Mesa isolation in semiconductor manufacture	L04-C12C	gas sorption	J01-E02B1
blowing	A11-C05A1 F01-C07A	Mesogenic/ mesomorphic (liquid crystal property of polymer)	A09-A02A		J01-E03C1 J06-B06C
coating onto substrates	A11-B05E	Metabolic disease treatment	B14-S13 C14-S13	Metal oxide semiconductor transistors	L04-E01B
iron and steel treatment	M24-C	Metaformaldehyde condensant	A01-E09	field effect	L04-E01B1
proofing of fabrics	F03-C03+	Metal atom incorporation in polymer	A10-E20 A10-E21+ A10-E22+	Metal plating of magnetic layers	L03-B05E
spinning	A11-B15B F01-C08B	Metal casting	M22-G	Metal reinforced with ceramic fibre	L02-J01D
spinning, high speed	A11-B15B1 F01-C08B1	casting ingots for rolling, forging	M22-G02	Metal reinforced with specifically designed fabric	F03-D04
Melting refractory or ceramic	L02-A05	casting pigs for remelting	M22-G01	Metal removal from water	D04-B05
Melts of polymers	A12-S	centrifugal casting	M22-G03B	heavy metals	D04-B05A
Membranes	A12-W11A	chill casting	M22-G03C	other metals	D04B05B
battery use	A12-E06B	continuous casting	M22-G03A	Metal salt adhesion	
electrolysis cell separators	A12-E09 J03-B03	die casting	M22-G03D	promoter for polymers	A08-M01C
ion transport	J01-E02C1	Directional solidification	M22-G03L	Metal salt containing polymer	A10-E21+ A10-E22+
reverse osmosis use	A12-W11A D04-A01D	For aero engines	M22-G03K1A	Metal spraying	M13-C
semipermeable	A12-W11A J01-C03	For IC engines	M22-G03K2	Metal supports for magnetic recording	L03-B05L2
semipermeable, for gas separation	J01-E03E	For turbines	M22-G03K1	Metal wires	F04-A
semipermeable, for waste gas treatment	J01-E02C	Investment casting	M22-G03N	Metal working	
separation use in petroleum processing	H02-D04	Rapid Solidification Processes	M22-G03M	ancillary equipment	M21-N
Memory elements	L03-G04	vacuum casting	M22-G03E	control and testing	M21-M
optical	L03-G04B	Metal coated with ceramic	L02-J01E	manipulators	M21-N02
semiconductor	L03-G04A	Metal coated with polymer	A12-B04+	safety devices	M21-N03
Memory enhancer	B14-J01A4 C14-J01A4	Metal complex dyes for dyeing/printing fibres	F03-F25	take-offs, furnaces and cooling beds	M21-N04
Mendeleeveium compounds	B05-A04 C05-A04	Metal containing compound crosslinker		Metal(loid) containing polymers	A06+
inorganic	E35-R	for addition (co)polymers	A08-C09	Metal, polymer coating on	A12-B04+
organic	E05-Q	for other (co)polymers	A08-D05	Metal-ceramic composites	L02-J01
Meningitis treatment	B14-N16 C14-N16	Metal containing heat stabiliser for polymers	A08-A04A	Metal-ceramic seals	L02-J01C
Mercaptan - see also Thioalcohol or Thiophenol		Metal containing monomer/ condensant	A01-A+	Metallic electrical conductors	L03-A01
Mercaptan chain transfer agents	A02-B	Metal drawing of sheet, wire, rod, tube or profile	M21-B01	insulated	L03-A01B
Mercaptan condensants	A01-E	equipment	M21-B01B	non-insulated	L03-A01A
Mercaptobenzothia- zole accelerator for crosslinking agents		processes	M21-B01A	Metallic fibres features	
for addition (co)polymers	A08-C03	Metal extrusion of sheet, wire, rod, tube or profile	M21-B02	chemical	F01-D09
for other polymers	A08-D04	auxiliary processes	M21-B02B	fibres, dyeing/ printing	F03-F12
Mercurising of fabrics	F03-B	control devices	M21-B02D	Metallic magnets	L03-B02A
Mercuric sulphide	L04-A03A	equipment	M21-B02C	Metallic pigments/fillers	G01-A12+
Mercury alloys (e.g. amalgam)	M26-B02	processes	M21-B02A	Metallised ceramic	L02-J01A
Mercury catalysts	N03-F02	Metal fillers or reinforcing agents for polymer	A08-R05	Metallised dyes for dyeing/ printing fibres	F03-F25
Mercury compounds	B05-A03A5 C05-A03A5	Metal incorporated polymer	A10-E20 A10-E21 A10-E22	Metallised polymers	A11-C04B1
inorganic	E35-E	Metal inhibitors for polymer	A08-A07	Metallising from metal vapour to form coatings	M13-F
organic	E05-N E05-N03C	Metal insulator semiconductor field effect transistor (MIST, MISFET)	L04-E01C	Metallising plastics	A11-C04B1
pigments/fillers	G01-A09			Metallising printed circuits	L03-H04E3
Mercury production	M25-G15			Metallising textiles	F03-H
Mercury selenide	L03-A03B			Metallocenes general	E05-V+ B05-V C05-V E05-V02
Merocyanine dyes	E25-B E25-E			bridged carbocyclic carbocyclic with only 1 pi-arene ligand	E05-V03
				heteroatom-containing rings	E05-V04
				metallocenes catalysts	A02-A06E
				Other 3-D structures	E05-V05

Unbridged metallocene with 2-4 pi-arene ligands	E05-V01	Methallyl acrylate (co)polymers	A04-B09	Methyl styrene, o-, m-, or p- (co)polymers	E10-J02B A04-C05
Metalloproteases	B04-L05C1 C04-L05C1	monomer	A01-C01	monomer	A01-D03
Metallurgical coke production	H09-A02A	Methallyl methacrylate (co)polymers	A04-B09	Methyl vinyl ether (co)polymers	A04-F11
Metallurgy		monomer	A01-C01	monomer	A01-D11
nuclear applications to	K09-J	Methallyl sulphonic acid (co)polymers	A04-A	Methyl vinyl ketone (co)polymers	A04-F03
Metallurgy polymer use	A12-W12F	monomer	A01	monomer	A01-D05
Metals (non-silver), radiation sensitive systems including	G06-F04	Methane	B10-J02 C10-J02 E10-J02D	2-Methyl-1,3-butadiene (co)polymers	E10-J02C A04-B07
Metalworking fluid	H08-D07	production by fermentation	D05-C14	butyl rubber	A04-G05A
Metathesis of olefins	E11-H02	4,7-Methanoindene	B09-D02 C09-D02 E09-D02	homopolymer	A04-B06
Methacrolein	B10-D01 C10-D01			monomer	A01-C05
(co)polymers	A04-F02	Methine dyes	E25-B	Methylenedioxy- benzene	B06-A02 C06-A02 E06-A02
monomer	A01-D05	Methoxylated melamine formaldehyde resin	A10-E08C	Methylenedioxy- pyridine	B06-E03 C06-E03 E06-E03
production	E10-D01A	Methoxylated methylolated melamine	A10-E08C	Methylenedioxy- quinoline	B06-E05 C06-E05 E06-E05
use	E10-D01D	Methoxymethylated melamine formaldehyde resin	A10-E08C	Methylolated melamine	A05-B02
Methacrylamide (co)polymers	A04-D04+	Methacrylated polymers	A10-E07B	Methylolated urea	A05-B03
monomer	A01-D06	Methyl acrylate (co)polymers	E10-G02 A04-F06+ A01-D10B	MF resins	A05-B02
Methacrylates		monomer	A03-A04+ B04-C02A2 C04-C02A2	Mica fillers	A08-R06B G01-A06
diolefinic (co)polymers	A04-B09	Methyl cellulose		Microarray	B11-C08E6 C11-C08E6
diolefinic monomers	A01-C01	Methyl ethyl ketone condensant	A01-E10	Microanalysis	J04-B04
monoolefinic (co)polymers	A04-F06+	Methyl ethyl ketone peroxide catalyst for addition polymerisation	A02-A01	Microbial mutants recombinant	D05-H03 D05-H14A
monoolefinic monomers	A01-D10	crosslinking agent for addition (co)polymers	A08-C05	Microbial polysaccharide	B04-C02F C04-C02F
polyolefinic (co)polymers	A04-A03	crosslinking agent for other polymers	A08-D	Microbicidal	B14-A01 C14-A01
polyolefinic monomers	A01-B03	redox polymerisation catalyst	A02-A03	Microbiological culture, apparatus	D05-H02 D05-H01
Methacrylic acid	E10-C04G+	Methyl hydroxypropyl cellulose	A03-A04 B04-C02A2 C04-C02A2	media	A12-W11L D05-H
(co)polymers	A04-F04+			Microbiology	A12-W05 B12-M11E C12-M11E
monomer	A01-D08	Methyl isopropenyl ketone (co)polymers	A04-F03	detergent use	D11-D02B
Methacrylic acid aldehyde (co)polymers	A04-F02	monomer	A01-D05	photographic	G06-C16
monomer	A01-D05	Methyl methacrylate (co)polymers	E10-G02 A04-F06 A01-D10B	Microcomputers for sewing machines	F02-F01B1
Methacrylic acid esters (co)polymers	A04-F06+	monomer	A01-D10B	Microdenier yarns	F01-E06
monomer	A01-D10B	Methyl methacrylate-glycidyl acrylate copolymer	A04-F06+ A05-A04	Microfilm	G06-D
production	E10-G02D3			Microfluidic devices	B11-C08C1 C11-C08C1
use	E10-G02H2C	4-Methyl pentene-1 (co)polymers	A04-G10 A01-D13	Microgels of polymers	A12-S
vinyl methacrylate	E10-G02D1 E10-G02H2A	monomer	A01-E13	Microorganisms	A12-W11L B04-B02B B04-F01 C04-B02B C04-F01
Methacrylic acid halide polymers	A04-E	Methyl phenol condensant	E10-J02B A04-C05 A01-D03	animal feeds from Bacteria	D03-G02 D05-H04
Methacrylic acid production	E10-C04G1B	Methyl styrene, alpha substituted (co)polymers			
Methacrylic acid use	E10-C04G2B	monomer			
Methacrylic anhydride (co)polymers	A04-F04+				
monomer	A01-D08				
Methacrylic fibres					
chemical features in production	F01-D02 F03-F05				
dyeing/printing					
Methacrylonitrile	B10-A15 C10-A15 E10-A15				
(co)polymers	A04-D03+				
homopolymer	A04-D02+				
monomer	A01-D04				
Methacryloyl halide polymers	A04-E				

Fungi	D05-H05	Mineralocorticoid antagonist	B14-D02A	amination of epoxy or	
linked to a carrier	D05-A03A		C14-D02A	polyether resins	A10-E18
linked to a carrier,		Mines (explosive)	K03-A01	amination other polymers	A10-E19
polymeric	A12-W11L	Minicells/organelles	B04-F12	arylation	A10-E03
microbial mutants	D05-H03		C04-F12	cyclisation	A10-E14
protein from	B04-B04A5	Mining		dehalogenation	A10-E04
	B04-N03	(meth)acrylamide		dehydrohalogenation	A10-E04
	C04-B04A5	(co)polymer use in	A04-D04A2	depolymerisation,	
	C04-N03	using low or zero gravity	M25-F04	degradation	A10-E05+
	D03-F03	polymer use in	A12-W10+	electric discharge	A10-E10
viruses	D05-H06A	MIP (Macrophage		epoxidation	A10-E06
Microparticle	B12-M11N	inflammatory protein)	B04-H11	esterification	A10-E07+
	C12-M11N		C04-H11	etherification	A10-E08+
Microprocesses	J04-F01	Mirrors	A12-L03	glycolysis	A10-E09+
Microphones, polymer use	A12-E12	MIS	B04-H10	halogenation	A10-E04A
Microprocessors in polymer			C04-H10	hydrohalogenation	A10-E04
processing	A09-D+	Miscarriage prevention	B14-P03	hydrolysis	A10-E09+
Microreactor	J04-X04		C14-P03	incorporating OH or COOH	
Microscopy	B11-C08J	Missiles, military	A12-T03D+	groups other than by	
	C11-C08J		K03-A	hydrolysis	A10-E23
Microsuspension		Miticide	B12-B04	incorporation of alkali(ne	
polymerisation	A10-B03		B14-B04A	earth) metal including	
	A10-B05		C12-B04	ammonium	A10-E21+
			C14-B04A	incorporation of other	
Microwave heat sealing/	A11-C01+	Mitomycin	B02-M	metals including B and Si	A10-E22+
welding of polymers			C02-M	incorporation of phosphorus	A10-E20
Microwave treatment of		Mixed chromophore dyes	E24-C	irradiating with ionising	
pigments fillers	G01-B01	Mixed filament yarns	F01-E07	radiation	A10-E10
Microwelding printed circuits	L03-H04E7	Mixers		irradiating with visible or	
Mikamycin	B02-M	flow	J02-A02A	UV light	A10-E10
	C02-M	for polymers	A11-A03A	nitration, sulphation, thio	
Military		rotary	J02-A02B	group formation,	
fabrics and products	F04-E02	Mixing	A11-A03	sulphonisation	A10-E24
polymer use	A12-T03D+		J02-A	oxidation, ozonisation	A10-E11
polymer use, reinforced	A12-S08D3	devices for fermentation		reduction	A10-E13
Milk	B04-B04K	vessels	D05-A03B	sulphation	A10-E24
	C04-B04K	equipment	A11-A03A	sulphohalogenation	A10-E12B
	D03-B		J02-A02	sulphonation	A10-E12A
additives	D03-B08	equipment, for batter		sulphurisation	A10-E24
carriers for	D03-B10	and dough	D01-A05	thio group formation	A10-E24
concentrates	D03-B07	glass batch	L01-B	ultrasonic vibrations	A10-E10
synthetic	D03-B11	ingredients for food	D03-K07	urethanisation	A10-E24
testing	D03-B09	processes	J02-A01	xanthation	A10-E24
transporting	D03-B10	Mixtures of polymers	A07-A	Modified polymers	A10-E+
Milling of plastics	A11-A05+	Modacrylic fibres	A04-D02B	Modifiers	
Millipedes	B04-P01C		A04-D03B	polymerisation	A02-B
	C04-P01C	chemical features of	F01-D02	viscosity, for polymers	A08-M06
Mimetic general and other	B14-L01	dyeing/printing	F03-F05	Moisture conservation	B12-P10
	C14-L01	Modelling compositions, clays	A12-F		C12-P10
Minced meat	D02-A03B	Moderating neutrons	K08-B		C14-T02
Mineral (naturally occurring)	B04-D02	Moderators for nuclear		Moisture crosslinking agent	A08-D06
	C04-D02	reactors	K05-B05	Moisture sensitive resistors	L03-B01A3
Mineral acids in detergents	D11-B13	Modification, chemical of		Molasses	B04-D01
Mineral bound to enzyme	D05-A01A5	drying oils	G02-B03		C04-D01
Mineral fibres		natural resins	G02-B01	Molasses, extraction of sugar	
mechanical treatment	F01-A03	Modification, chemical of		from	D06-F
preparation	L02-B08	polymers by		Molecular chaperones/	
product	L02-D11	acetalisation	A10-E02	chaperonins	B04-N09
Mineral oils	B04-B01C3	alcoholysis	A10-E09+		C04-N09
	C04-B01C3	alkylation	A10-E03	Molecular properties of	
lubricants	H07-B	amidation	A10-E17	polymers, testing of	A09-C
Mineral waxes	B04-B01C3				
	C04-B01C3				



Molecular sieve catalysts (silico)phosphate	N06-A N06-B03 L02-G01A	condensants Monolithic capacitors Monomer	A01-E13 L03-B03B	Morpholine	B07-E03 C07-E03 E07-E03
sorption (petroleum processing)	H02-B01	Sulphur dioxide	A01-A	Mortars, cements	A12-R01A L02-D01
gas sorption	J01-E02B1 J01-E03C1 J06-B06C	Monomer intermediates Monomer recovery/removal from polymer Monomer removal from waste water	A01-F A10-G01A D04-B06	Moss	B04-A07D B04-A08A C04-A07D C04-A08A
Molluscicides	B12-N04 B14-B12 C12-N04 C14-B12	Monomer, polymerisation coating process Mononuclear monohydric phenols condensants Mononuclear polyhydric phenols condensants	A11-B05C A01-E13 A01-E13	controlling	B12-P07 C12-P07
Molten polymers	A12-S	Mononuclear monohydric phenols condensants	A01-E13	Moth proofing of fabrics, non-resinous	A12-S05R F03-C02B
Molybdenum alloys	M26-B13	Monoolefin, aliphatic, substituted monomer	A01	of fabrics, resinous	A12-G F03-C02B
production	M25-G18	Monoolefin, aliphatic, substituted polymer		Motilin	B04-J12 C04-J12
Molybdenum catalysts	N03-D N03-D02	containing halogen (but not nitrogen)	A04-E+	Motion sickness treatment	B12-D05 B14-E05
for polymerisation	A02-A06+	containing nitrogen	A04-D+		C12-D05 C14-E05
Molybdenum compounds	B05-A03B C05-A03B E35-Q	not containing halogen or nitrogen	A04-F+	Motor molecules	B04-H20 C04-H20
inorganic		Monoolefin, aliphatic, unsubstituted polymer (general)	A04-G+	Motors, electric	A12-E08B L03-B02E
inorganic compound	G01-A14	application	A04-G01E	Mould inhibitors	B12-A02 B14-A04
pigment	E05-M	compounding	A04-G01B		C12-A02 C14-A04
organic	E05-M03C	fabrication	A04-G01C	Mould material	
Monitoring radiation	K07-A	production	A04-G01A	control and testing	M22-A
Monoalkyl orthophosphate (or its salt)	B05-B01P C05-B01P E05-G09C	treatment	A04-G01D	drying or cooling	M22-B03
Monoazo dyes		Monoolefin, aromatic		hardening including	
for polymers	A08-E03A+	monomer, substituted	A01-D02	catalysts	M22-A
pigment	E21	monomer, unsubstituted	A01-D03	machines for handling	
Monobath processing, photographic	G06-G15	polymer	A04-C+	or dressing	M22-B
Monochloroalkane	E10-H02K E10-H03C5 E10-H04C5	Monoolefinic monomers	A01	mixing, grinding and kneading	M22-B01
Monochloroalkene	E10-H02J E10-H03C3 E10-H04C3	Monoquaternary ammonium compounds	B10-A22 C10-A22 E10-A22	reclaiming, sieving and separating	M22-B02
Monochloroalkyne	E10-H02J E10-H03C3 E10-H04C3	Monosaccharides (general)	B04-D01 C04-D01	Mould release agents for concrete moulding	L02-D02
Monoclonal Antibodies	D05-H11A	with no heterocyclic ring	B10-A07 C10-A07 E10-A07	polymers	A08-M03B
prepared by hybridoma techniques	D05-H11A1	Monothiocarbamic acid, or ester (organic)	B10-A12B C10-A12B E10-A12B	Mould repellent (biological)	A08-M02
prepared by recombinant DNA techniques	D05-H11A2		E10-A12B1 E10-A12B2	Mouldable refractories	L02-E05
Monocotyledons	B04-A08C2 C04-A08C2	Mops	A12-D03	Moulding	
Monocytes	B04-F04 C04-F04	Mordant, photographic	A12-L02F G06-H10	blow	L01-E03
Monoepoxy condensants	A01-E07	Morphinan	B04-A04 B06-D18	food	D03-K06
Monofilaments (monofils)	A12-S05E F01-E05		C04-A04 C06-D18 E06-D18	foundry	M22-A
Monoglycidyl ether/ester condensants	A01-E07		B04-A04	glass	L01-E05
Monohydric phenols			C04-A04	machine	M22-E
				pressure (ceramics)	L02-A03
				pressure (glass)	L01-E04
				Mouldings of polymers	
				blow	A11-B10
				compression	A11-B11
				equipment control/safety	
				in	A09-D1
				foams	A11-B06C
				injection	A11-B12+



rotational	A11-B04A	Multicolour diffusion transfer materials	G06-C09+	Mycobactericides (-stats)	B12-A03
slush	A11-B04B				B12-A04
stereographic	A11-B16	Multicomponent inorganic pigment	G01-C		B14-A01B1
stereolithographic	A11-B16	Multicore optical glass fibres	L01-F03J		C12-A03
transfer	A11-B11	Multilayer (electro)-photographic systems	G06-C14+		C12-A04
with crosslinking	A11-C02D	Multilayer systems i.e. with multiple conductive layers	L04-C13	Mycocides	C14-A01B1
Mouldings, polymeric, ejection of	A11-C06	Multiple sclerosis treatment	B12-C10		B12-A02
Moulds			B12-E02		B14-A04
apparatus for production (for foundry casting)	M22-E		B14-S01		C12-A02
chill casting	M22-G03C1		C12-C10	Mycoplasma	C14-A04
compositions	M22-A01		C12-E02		B04-B02B5
compositions, inorganic binders	M22-A02	Multiply paper material	C14-S01		B04-F10A4
compositions, organic binders	M22-A03	multiply tissue/wipes	F05-A06A	Mycostats	C04-F10A4
compositions, surface coating, release composition	M22-A04	Multistep processing in semiconductor manufacture	F05-A06A2		B12-A02
continuous casting	M22-G03A1	involving conductive and insulating layer formation	L04-C14		B14-A04
design production (for foundry casting)	M22-D	Multivitamin compositions	L04-C15	Mydriatics	C12-A02
for glass	L01-E06		B03-L		C14-A04
for ingots	M22-G02B		C03-L		B12-E03
injection	A11-B12B	Muscarinic	B14-J02A2		B14-J05B
of plastics, of polymers	A12-A02	Muscle contractant	C14-J02A2	Myeloma	B14-H01P
	A12-H05		C14-J05C		C14-H01P
of rubber	A12-H05	Muscle proteins	B04-H20C+	Mylar®	A05-E04+
Moulds, compositions			C04-H20C+	Myocardial infarct treatment	B12-F01B
surface coating, mould		Muscle relaxants	B12-E02		B14-F01B
Mouth preparations	B12-L04		B14-J05A	Myopics	C12-F01B
	B14-N05		C12-E02		B12-E03
	C12-L04	Muscular active general	C14-J05A		B14-J05B
	C14-N05		B14-J05		C12-E03
	D08-B08+		C14-J05	Myosin	C14-J05B
Mouth disease	B14-N05A	Mushrooms			B04-H20C2
	C14-N05A	cultivation	D05-A04C	Myotrophics	C04-H20C2
Mouth wash	D08-B08B	extracts	B04-A07F1		B12-E02
whitening	D08-B14B		B04-A10A		B14-J05
MSH (melanocyte stimulating hormone)	B04-J05G		C04-A07F1		C12-E02
	C04-J05G	protein	C04-A10A	Myotropics	C14-J05
Mucolytic	B12-K05		B04-B04A4		B12-E02
	B14-K01E		B04-N01		B14-J05
	C12-K05		C04-B04A4		C12-E02
	C14-K01E	whole	C04-N01	Myriapods	C14-J05
Mud, drilling	A12-W10A		B04-A07D5		B04-P01C
Mulch films	A12-S06+		B04-A08D		C04-P01C
	A12-W04A		C04-A07D5		
	B12-P10	Musical instruments	C04-A08D		
	C12-P10	Mutagen	A12-W08		
	C14-T02		B14-H02		
Mulches	A12-W04A	Mutant formation - general	C14-H02		
	B12-P10	Mutant sequences	D05-H03		
	C12-P10	engineered	D05-H12B		
	C14-T02	naturally occurring	D05-H12B2		
Mule spinning	F01-G02	Mutase	D05-H12B1		
Mullerian inhibitory substance	B04-H10		B04-L07		
	C04-H10	Mycobacteria	C04-L07		
Multi-CSF	B04-H02C		B04-F10B2		
	C04-H02C		C04-F10B2		

## N

N-Acylation reactions	E11-F07D	heteroatoms)	E05-U06	Natriuretics	B12-C03
N-methylol (meth)acrylamide		Nanostructures (organic)	E05-U07		B14-N08
(co)polymers	A04-D04+	Nanotechnology	B11-C12		C12-C03
monomer	A01-D06		C11-C12		C14-N08
N-Propyl acrylates			J04-F02	Natta catalysts for polymerisation	A02-A06+
(co)polymers	A04-F06+	Nanotechnology devices	A12-W14	Natural	
monomer	A01-D10B		B12-M10A7	food colorant	D03-H01E1
N-vinyl carbazoles			C12-M10A7	gums	A03-A
(co)polymers	A04-F06+	Nanotubes, carbon only	B05-U03		A03-C02
monomer	A01-D10B		C05-U03	resins	A03-C02
N-vinyl carbazoles			E05-U03		G02-B01
(co)polymers	A04-D06		E31-U02	rubber	A03-B
monomer	A01-D01		L02-H04B	Natural fibrous material	
N-vinyl phthalimides		double-walled	E05-U03B	treatment	
(co)polymers	A04-D08	multiple-walled	E05-U03C	chemical	F01-B+
monomer	A01-D01	single-walled	E05-U03A	mechanical	F01-A+
N-vinyl pyridines		Nanotubes, carbon plus heteroatom	B05-U04	Natural gas	H01-F
(co)polymers	A04-D07		C05-U04	field treatment	H01-F01
monomer	A01-D01		E05-U04	liquefaction	H01-F02
N-vinyl pyrrolidones		Nanowhiskers	E31-U02	products	H06-A02
(co)polymers	A04-D05A	Nanowhiskers (carbon only)	E05-U05B	recondensation systems for	H03-E01
monomer	A01-D01	Naphtha extenders	A08-P08	Natural leather, coatings on	A12-B06
Nadic condensants	A01-E12	Naphthacene	B08-C01	Natural polymers	A03-A+
Nafion ®	A04-E09		C08-C01		A03-B+
	A04-E10+		E08-C01		A03-C+
Nail care preparation (including polish)	A12-V04C	Naphthalene	B10-J02		B04-C03D
	D08-B02		B10-J02	adhesives/binders	C04-C03D
Nails (or extracts)	B04-B04E		C10-J02		A12-A05A
	C04-B04E		C10-J02	coatings on metal	G03-B02A
Nairit ®	A04-B08		E10-J02B	coatings/paints	A12-B04C
Nanobuds (carbon only)	E05-U05D	condensant	A01-E		A12-B01D
Nanocatalyst	N06-C09	Naphthalene 1,5- diisocyanate condensant	A01-E02	in polymeric blend	G02-A02A
Nanocrystals	M26-C02	Naphthalene dicarboxylic acid	E10-C02C	modified by alkali(ne	A07-A01+
Nanofilms	E31-U03		E10-C02C1B	earth) metal incorporation	A10-E21A
	B05-U05B		E10-C02C2B	production	A10-A
	C05-U05B	condensant	A01-E11	Natural polypeptides	A03-C01
Nanofilms (carbon only)	E05-U05C	Naphthalene dicarboxylic based saturated polyester	A05-E05A	Natural products (general)	E04
Nanofilters	J01-C04	Naphthalene sulphononic acid condensant	A01-A	Natural resins	A03-C02
Nanoform (morphology)			A01-E		B04-C03D
chromophores (general)	E27-B03A	Naphthalene sulphononic acid-formaldehyde resin	A05-J08	for coating metal	C04-C03D
dyes	E27-B02A	Naphthalenes, vinyl		paints	G02-A02A
pigments	E27-B01A	(co)polymers	A04-C05	Natural rubber	A03-B
Nanohorns (carbon only)	E05-U05D	monomer	A01-D03		B04-C03D
Nanomaterials		Naphthol condensant	A01-E13	adhesives/binders	C04-C03D
conductive	L03-A01A6	Naphtholic couplers, photographic	G06-H08A		A12-A05A
	L03-A02G	Napkins, baby	A12-V03A	in polymeric blends	G03-B02B
semiconductive	L04-A05	shape of	F04-C01A	latex	A07-A+
Nanoparticles	E31-U01	Napping of fabrics	D09-C03	Nausea treatment	A07-B01
Nanoparticles (carbon only)	E05-U05A		F03-A		B14-E05
Nanophase alloys	M26-C02	Narrow fabrics	F02-E02		C14-E05
Nanopowder (carbon only)	E05-U05A	Nasal preparations	B12-L04	NBR (acrylonitrile-butadiene rubber)	A04-B04
Nanorods	E31-U02		B14-N04	Near infra-red dyes	E24-D
Nanorods (carbon only)	E05-U05B		C12-L04	Nebulizer	B12-M01B3
Nanostructures, inorganic	B05-U06		C14-N04	Needles	C12-M01B3
	C05-U06				B11-C02B
	E31-U				C11-C02B
Nanostructures (bound to dye or pigment)	E24-U				
Nanostructures (containing					

Needle-free injector	B11-C04E C11-C04E	Neurospora	B04-F09B C04-F09B	Nitric oxide agonists	B14-L01D C14-L01D
Needle selection in knitting machines	F02-B01	Neurotensin	B04-J15 C04-J15	antagonists/inhibitors	B14-L06D C14-L06D
Needling to give non-woven fabrics	F02-C02D	Neurotropics	B12-E02 B14-J01A4 C14-J01A4	Nitrides	
Neisseria	B04-F10A5 C04-F10A5	Neutral refractories	L02-E09	abrasive	L02-F03
Nematocides	B12-B02 B14-B03A C12-B02 C14-B03A	Neutrocyanine/merocyanine spectral sensitisers	G06-H07B	ceramic	L02-H02B2
Neodymium compounds	B05-A03B C05-A03B	Neutron counters	K08-A01	hard alloy	M26-B12
catalysts	N03-A02B	flux control (nuclear reactor)	K05-B06A	layers on semiconductors	L04-C12B
inorganic	E34-E02B	moderating and producing	K08-B	Nitriding metal	
organic	E05-P	Neutrophil activating protein	B04-H02J C04-H02J	using gas	M13-D03A
Neomycin	B02-N C02-N	Nibs for pens	A12-D05B	using liquid	M13-D02A
Neon (element)	B05-B02C C05-B02C	Nickel		using solid	M13-D01A
	E31-J	alloys	M26-B08	Nitriding metal using	
Neon compounds	B05-B02C C05-B02C	alloys, magnetic	L03-B02A4	Nitrification inhibitors	B12-N08 C12-N08 C14-T01D
inorganic	E31-J	electrodeposition	M11-A02		
organic	E05-K	electrodes for batteries	L03-E01B4	Nitrile acrylic (co)polymers	A04-D03+
Neopentyl glycol condensant	A01-E14	production	M25-G19	monomer	A01-D04
Neoprene		Nickel catalysts	N02-C	polymer	A04-D02+
(co)polymers	A04-B08	element	N02-C01	Nitrile rubber	A04-B04
monomer	A01-C04	Raney	N06-C	Nitrites, organic	B10-A05 C10-A05 E10-A05
Nephritis treatment	B12-G03 B14-N10 C12-G03 C14-N10	Nickel compounds	B05-A03B C05-A03B E35-W	Nitro compounds, organic	B10-G03 C10-G03 E10-G03
Neptunium compounds	B05-A04 C05-A04	inorganic	E35-W	Nitro dyes	E25-A
inorganic	E35-R	inorganic compound pigment	G01-A13	Nitrocellulose	A03-A03 B04-C02A3 C04-C02A3
organic	E05-Q	organic	E05-L02 E05-L02C	Nitrogen (element)	B05-C03 C05-C03 E31-H03 N04-A
Nerve gas antidotes	B12-E04 B12-J05 B14-M01 C12-E04 C12-J05 C14-M01	Nickel, Raney, see N6-C also		Nitrogen catalysts	
Net fabrics	A12-S05J F02-E03	Niobium		Nitrogen compounds, inorganic (excluding ammonia, ammonium)	E31-H
Net lace	F02-E01	alloys	M26-B13	halogen and/or sulphur containing	E31-H03 E31-H04 E31-H05
Net making	F02-E03	Niobium catalysts	N03-C N03-C03	other, production	
Nets	A12-P07 F02-E03	for polymerisation	A02-A06+	other, use	
Neurohypophyseal	B04-B02D4 B04-J05 C04-B02D4 C04-J05	Niobium compounds	B05-A03B C05-A03B	Nitrogen containing compound crosslinker	A08-C09 A08-D03 A08-D04
Neuroleptics	B12-E02 B14-J01B3 C12-E02 C14-J01B3	inorganic	E35-N		
Neuroprotective	B14-J01 C14-J01	organic	E05-M E05-M03A	Nitrogen containing inorganic compounds removal from water	D04-B07C
		Nitrates, cellulose	A03-A03 B04-C02A3 C04-C02A3	Nitrogen containing inorganic detergent additives	D11-B20
		Nitrates, inorganic general	B05-C02 C05-C02 E31-H D04-B07C	Nitrogen containing mono-unsaturated monomers	
		removal from water	D04-B07C	amide	A01-D06
		Nitrates, organic	B10-A05 C10-A05 E10-A05	cyclic	A01-D01
		Nitration (catalytic)	N07-D08C	nitrile (aliphatic)	A01-D04
		Nitration of polymers	A10-E24	others (not specified above)	A01-D07
		Nitric acid	B05-C02 C05-C02 E31-H	Nitrogen containing monoolefinic (co)polymers	A04-D+

Nitrogen halides, organic	B10-A02 C10-A02 E10-A02	Non-coding sequences	D05-H12D	Non-ferrous metals (changing physical structure)	
Nitrogen oxides, inorganic	B05-C03 C05-C03 E31-H E31-H	antisense sequences	D05-H12D2	changing physical properties	M29-E
production	E31-H04	other	D05-H12D6	cold working	M29-B
removal, catalytic	E31-H01	primers	D05-H12D1	heat treatment	M29-C
removal, other	H06-C03B	probes	D05-H12D5	heat treatment, apparatus	M29-C02
use	E31-H05	regulation sequences	D05-H12D4	heat treatment, of	
Nitrogen oxides, organic	B10-A03 C10-A03 E10-A03B	ribozyme	D05-H12D3	specific articles	M29-C03
Nitrolic acid	B10-A03 C10-A03 E10-A03A	triple-helix forming	A09-A01	hot working	M29-A
Nitrone	B10-A03 C10-A03 E10-A03A	Non-combustible polymers	M24-E	special physical treatment	M29-D
Nitroso compounds, organic	B10-A03 C10-A03 E10-A03C	Non-destructive testing of	M25-H	treating and testing (other)	M29-E
Nitroso dyes	E25-A	ferrous metals	M23-G	Non-ferrous metals (production)	
Nitroso group containing		non-ferrous metals		apparatus	M25-J
(co)polymers	A04-A04	welds		control/testing	M25-H
monomer	A01-A05	Non-drying oil derived	A05-E08	dry reduction of ore	M25-C
NMR analysis of polymers	A09-B	polyesters		dry reduction of ore, apparatus	M25-C01
NMR diagnosis	B12-K04C2 C12-K04C2	Non-electrolytic deposition/coatings		dry reduction of ore, methods	M25-C02
NMR testing	B11-C08A B11-C08G2 C11-C08A C11-C08G2	cathode sputtering	M13-G	extraction from scrap, flue dust, slag	M25-E
Nobelium compounds	B05-A04 C05-A04 E35-R E05-Q	cementation by diffusion processes	M13-D	refining by carbonyl reduction	M25-D
inorganic	E35-R	cladding of or with metal	M13-H01	refining in a vacuum	M25-F01
organic	E05-Q	electroless plating	M13-B	specific metal by general method	M25-G
Noble gas catalysts	N04-A	electrostatic coating, general	M13-H06	Non-ferrous ore treatment	M25-A
Noble gases	B05-B02C C05-B02C E31-J	electrostatic coatings	M13-H06	concentration	M25-A01
compounds	B05-B02C C05-B02C	enamelling/vitreous coating of metal	M13-J02	sintering, crushing, roasting, briquetting	M25-A02
compounds, organic	E05-K	gas plating by decomposition or reduction	M13-E	Non-flammability of polymers	A09-A01
inorganic	E31-J	hot dip metal coating	M13-A	Non-ionic detergents	A12-W12+ D11-A03
Noble metals		metal spraying	M13-C	Non-iron textile finish	
alloys	M26-B01	metallising from metal vapour	M13-F	non-resinous	A12-S05R F03-C04
electrodeposition	M11-A05	oil free lubricant and friction coatings	M13-K	resinous	A12-G02 F03-C04
production (excluding silver)	M25-G20	plastics coatings	M13-H05	Non-magnetic layers for magnetic recording	L03-B05K
Noble metals catalysts	N02	refractory coatings, general	M13-H04	Non-mammalian extract (general)	B04-B04M C04-B04M
Noise insulation	A12-R06	sintering on or of metal	M13-H02	Non-metal additive in glass composition	L01-A07
in transport	A12-T04B	using adhesives	M13-H03	Non-metal compounds	E31
Nomex®	A05-F05	vacuum evaporation or		Non-metal conductors	L03-A02A
Non-chocolate candy+		Non-ferrous alloys (based on particular metals)	M26-B	Non-metal/ceramic composites	L02-J02
chewy	D03-E10B2	Non-ferrous alloys (changing physical structure)		Non-metallic coating of metal by surface reaction	M14-D
hard	D03-E10A2	changing physical properties	M29-E	chromate layer	M14-D03
Non-circular fibres	A12-S05A F01-E02	cold working	M29-B	oxide layer	M14-D01
		heat treatment	M29-C	phosphate layer	M14-D02
		heat treatment, apparatus	M29-C02	Non-metallic coating of metal electrolytically	M11-F
		heat treatment, of specific articles	M29-C01	Non-metallic electric conductors	L03-A02
		hot working	M29-A	non-insulated	L03-A02A
		special physical treatment	M29-D	Non-metallic magnets	L03-B02B
		Non-ferrous alloys (production)	M26-A	Non-metals	E31
		by melting	M26-A01	Non-oxide ceramics	L02-H
		by pressing or sintering	M26-A02		
		by removing material from another alloy	M26-A03		
		Non-ferrous metal compounds			
		extraction from ore by wet method	M25-B		

Non-oxide network former, in glass composition	L01-A07B	Norbornene monomer	A01-D13	Nutritional additives, or compositions	
Non-polymer coating		monoolefinic (co)polymer	A04-G	Nutritional agents	B14-E11
on fabrics and fibres (sizes)	A12-G04	Normalising, ferrous metals	M24-D02B		C14-E11
on polymers	A11-C04+	Nose preparations	B12-L04	Nuts (seed)	B04-A09F
Non-radiation sensitive agent			B14-N04		C04-A09F
binders	G06-A06		C12-L04	extracts	B04-A10G
filter dyes	G06-A02		C14-N04		C04-A10G
nucleating	G06-A04	Notched izod impact strength	A09-A05A		products
nuclei	G06-A04	Novobiocin	B02-N		D03-Q
screening dyes	G06-A02		C02-N	Nuts and bolts	A12-H12
Non-radiation sensitive copying materials	G05-E	Novolacs	A05-C+	Nuts, treatment of	D03-J02
Non-radiation sensitive layer		Nozzles	J02-C01	Nylon 11	A05-F03
antihalation	G06-A02	for glass fibre formation	L01-F03B		F01-D03A
antistatic	G06-A03	for metal casting	M22-G03G1	dyeing fibres	A12-S05N
barrier	G06-A08	NR - see Natural rubber	A03-B		F03-F06+
conversion screens	G06-A09	Nub yarn	A12-S05E	Nylon 6	A05-F03
dielectric	G06-A13		F01-E		F01-D03A
electrically conductive (for electrophotography)	G06-A07	Nuclear warfare engineering protection against	K02-A03	dyeing fibres	A05-F02
filter	G06-A02	Nuclear ceramic oxides	L02-G09		A12-S05N
intensifying screens	G06-A09	Nuclear engineering (polymer use)	A12-W11C	Nylon 66	F03-F06+
intermediate	G06-A10	Nuclear explosives	K08-D	dyeing fibres	F01-D03A
magnetic	G06-A12	Nuclear fusion reactors	K05-A03		A12-S05N
nucleating	G06-A04	constructional features	K05-A03C	Nylon 6:10	F03-F06+
protective	G06-A08	fusion targets	K05-A03B		A05-F02
receiving	G06-A04	plasma containment	K05-A03A	dyeing fibres	F01-D03A
reflective	G06-A11	Nuclear hormone receptor	B04-K01X		A12-S05N
release	G06-A05		C04-K01X	Nylon 6:6	F03-F06+
scratch resistant	G06-A08	Nuclear magnetic resonance analysis of polymers	A09-B	Nylon 66	A05-F02
storage phosphors for X-ray material	G06-A09	testing	B11-C08A	Nylon fibre filler for polymers	A05-F+
stripping	G06-A05		B11-C08G2		A08-R08A
subbing	G06-A01		C11-C08A	Nylon fibres dyeing/printing	A12-S05N
Non-resinous sizing of fabrics and fibres	A12-G04		C11-C08G2		F03-F06+
Non-silver metal, radiation sensitive system including	G06-F04		J04-B01A	Nylons	A05-F+
Non-steroidal nuclear hormone receptors	B04-K01X	Nuclear power		Nylons modified by alkylation or by alkoxyalkylation	A10-E19
	C04-K01X	heat exchangers for	K06-B	Nystatin	B02-N
Non-stick coatings	G02-A05D	plant aspects	K06-X		C02-N
Non-woven fabrics	A12-S05G	steam raising plant for	K06-A		
	F02-C01	Nuclear reactors	K05-A		
adhesive or binder bonded	F02-C01C	accessories	K05-B07		
polymer-bonded	A12-B02B	materials for	K05-B10		
production	F02-C02	Nucleating agents for polymer foam	A08-M10		
production by air laying	F02-C02F		A08-S07		
production by		Nucleating layer, photographic	G06-A04		
hydroentangling	F02-C02F	Nucleic acid - see also DNA and RNA	B04-B04A1		
production by spunlacing	F02-C02F	detection and analysis of	J04-B03		
production by wet laying	F02-C02F	Nucleosides	B04-B03A		
Non-woven pile fabrics	F02-C01A		C04-B03A		
Non-woven self-bonded fabrics	F02-C01B1	biosynthesis of	D05-C06		
Nonyl phenoxy polyethylene glycol	A10-E08B	Modified nucleosides	B04-B03D		
Noodles	D01-B02E		C04-B03D		
Nootropics	B14-J01A4	Nucleotides	B04-B03B		
	C14-J01A4		C04-B03B		
		biosynthesis of	D05-C05		
		Modified nucleotides	B04-B03E		
			C04-B03E		

## O

O/W dispersion of polymers	A07-B+	Oils	D10-A	Olefinics	
Obesity treatment	B14-E12	additives, methacrylate		di-unsaturated polymers	A04-B+
	C14-E12	antioxidants for	D10-A03	hydrocarbon polymer	
Octene-1		additives, methacrylate		adhesives	A12-A05+
(co)polymers	A01-D13	antioxidants for,		mono-unsaturated	
monomer	A04-G	(co)polymer in	A04-F06E3	monomers	A01
Odorant for polymers	A08-M04	chemical modification of	A12-W02A	mono-unsaturated,	
Odorant treatment of textiless	F03-C09	compositions containing	D10-B02	aromatic polymer	A04-C
Oedema treatments	B12-G03	cooking(liquid)	D10-A06	monomer as crosslinking/	
	C12-G03	dielectrics for cables	D03-C01	curing agent	A08-C07+
general	B14-C03	dielectrics for capacitors	L03-A01B	Olefins	B10-J02
	C14-C03	dielectrics for transformers	L03-B03		C10-J02
Oesophagus disease treatment	B14-E10A	drying	L03-B02D		E10-J02C
	C14-E10A	edible	G02-B03	(co)polymer in polymeric	
Oestr - see also Estr-		edible(liquid)	D03-C	blends	A07-A+
Oestrogen inhibitors	B12-G01A	essential	D03-C01	diolefinic (co)polymers	A04-B+
	B14-D02A	extenders	D10-A05	diolefinic monomers	A01-C+
	C12-G01A	fatty acids from	A08-P08	metathesis	E11-H02
	C14-D02A	halogenated	D10-B01	monoolefinic (co)polymers	A04-G+
Oestrogen receptors	B04-K01L2	filtration	B04-B01A	monoolefinic monomers	A01-D13
	C04-K01L2	insulating for cables	C04-B01A	production by	
Oestrogenic	B12-G04C	insulating for capacitors	J01-F04X3	disproportionation	E10-J02C2
	B14-D01B	plasticisers	L03-A01B4	production by	
	C12-G04C	pollution of water by,	L03-B03D	oligomerisation	E10-J02C1
	C14-D01B	treatment	A08-P08	production by other methods	E10-J02C3
Oestrus cycle determination	B12-K04A6		D04-B02	uses	E10-J02C4
	C12-K04A6		D04-B03	Olefins, mono-unsaturated -	
Office equipment	A12-D05+	preservation, by additives	H03-G	see Monoolefins	
Office use, polyethylene in	A04-G02E3	production from raw	H05-L02	Oligomerisation	A10-B08
	A12-D05+	materials	D10-A03	equipment	A10-B01
Office, polypropylene use in	A04-G03E1	proofing textile - see Oil		Oligonucleotides	B04-B03C
	A12-D05+	repellant textile treatment	D10-A01		C04-B03C
Oil baths, heat treatment of		recovery	A12-W10B	antisense sequences	D05-H12D2
iron and steel	M24-D02C	refining	D10-A02	primers	D05-H12D1
Oil cloths		removal from water	A12-W11+	probes	D05-H12D1
general	F04-B01		D04-B02	triple-helix forming	D05-H12D3
with polyurethanes	F04-B01A		D04-B03	Oligosaccharides	B04-C02X
with polyvinyl chloride	F04-B01B		J01-D03		C04-C02X
Oil lifting equipment	H01-D01	repellants as - see Oil		Omega-aminocaproic acid	
Oil repellant textile treatment		repellant textile treatment		condensant	A01-E04
non-resinous	A12-S05R	repellants as additives		Omega-aminoanthracic acid	
	F03-C02	for polymers	A08-S08	condensant	A01-E04
resinous	A12-G03	repellants as textile		Omega-aminoundecanoic	
	F03-C02	finishes/treatment	A12-G03	acid condensant	A01-E04
Oil shale production and		separation of mixtures of	D10-A04	On-site foaming	A11-B06+
treatment	H01-D10	slick control	A12-W11+	of polyurethanes	A12-S02A
Oil testing methods	H01-E03		D04-B02	Oncogene	B04-E02G
Oil well			D04-B03		B04-E03G
consolidation	H01-C09	textile finishes - see Oil		Onium compounds as	
control equipment	H01-B03B	repellant textile treatment		disinfectants other than	
Oil wells (polymer use)	A12-W10+	unhalogenated	B04-B01C	of food or air	D09-A01B
Oil-in-water dispersion of			C04-B01C	Open cell foams	A12-S+
polymers	A07-B+	Ointments	B12-M02	Open hearth process	M24-B02B
Oiling agents for fibres	A08-M03A		C12-M02	Open-end spinning	F01-G05
Oiling of fibres	F01-H06+	Oleandomycin	B02-O	Opening of fibres	F01-F03
			C02-O	Ophthalmic lenses	A12-L02A
					A12-V02A
					D09-C01A

Ophthalmic preparations	B12-L04 B14-N03 C12-L04 C14-N03	Optical properties of polymers	A09-A02+ G06-H07+	Organoantimony compounds	B05-A02 C05-A02 E05-J
Opium alkaloids	B04-A04 C04-A04	Optical sensitisers	G06-H07+	Organoarsenic compounds	B05-B01C C05-B01C E05-H
Optical (electro-) uses	A12-E11+	Optical storage media, photographic use	G06-D07	Organoboron compounds	B05-B01A C05-B01A E05-C E05-C01 E05-C02
Optical application of glass	L01-L05	Optical uses of (meth)acrylamide (co)polymer	A04-D04A1 A12-L+	Organolithium catalysts for polymerisation	A02-A07+
Optical bleaches	A08-E03C E24-A F03-B01 F05-A06D	(meth)acrylate (co)polymer	A04-F06E4 A12-L+	Organometallic compounds	B05 C05 E05
addition to paper	F05-A06D	polymers	A12-L+	activator for Ziegler type catalysts	A02-A07A
Optical bleaching of fabrics	F03-B01	PVA	A10-E09B2 A12-L+	catalysts (excluding transition metals)	A02-A07+ E05-W
polymer	A11-A01+	silicones	A06-A00E4 A12-L+	condensants (for polymers)	A01-A04 A01-A04
Optical brighteners	E24-A	Optically anisotropic melt of polymers	A09-A02A	Organophosphorus compounds	B05-B01 E05-G
for detergents	D11-B01	Optically anisotropic/ anisotropy of polymers	A09-A02A	Organoselenium or -tellurium compounds	B05-B01D C05-B01D C05-B01D E05-K
for fabrics	F03-B01	Optically readable records	A12-L03C	Organosilicon compounds	B05-B01B C05-B01B E05-E
for paper	F05-A06D	Opto-electronics	A12-E11+ L03-G L03-G10	Organosols of polymers	A12-S
inorganic pigments	A08-E02	devices	L03-G10	Orientation	A11-B02B F01-C06
organic	A08-E03C	electrophotographic	G06-D06B	fibres	A11-B02A A11-B02+
removal from water	D04-B06B	production of materials	L03-G	Orlon®	A04-D02+ A04-D03+ F01-D02
Optical cables	G02-A05H	Ordered copolymerisation by addition	A10-C+	Orphan G protein coupled receptor	B04K01 C04K01
coatings	G02-A05H	Ore (non-ferrous) treatment	M25-A M25-A01	Orthopaedic casts	A12-V03A
Optical cables (polymer use)	A12-L03A F04-G01	concentration	M25-A01	Orthophosphoric acid (and salts)	B05-B02A C05-B02A E31-K
Optical ceramic oxides	L02-G10	sintering, crushing, roasting, briquetting	M25-A02	Orthophosphoric acid, alkyl ester	B05-B01P B05-B01P C05-B01P E05-G09C
Optical discs	L03-G04	Ore treatment for iron and steel manufacture	M24-A01	Osmium	M26-B01
coatings	L03-G04B4	Organs, artificial	B11-C04F C11-C04F	alloys	M11-A05
photographic use	G06-D07	Organelles/minicells	B04-F12 C04-F12	electrodeposition	M25-G20
polymer use	A12-L03C	Organic coatings on glass sheet	L01-G04B	production	M25-G20
Optical fibres	F04-G01 L01-L05	of polymers	A12-B05	Osmium catalysts	N02-E
coatings	G02-A05H	Organic compounds catalyst	N05		
manufacture-glass film	L01-F03F3	Organic photoconductors for radiation sensitive system	G06-F06		
deposition	L01-F03M	Organic pigments	A08-E04		
polymer use	A12-L03A	Organic semiconductors materials	L04-A04 A12-E07C		
Optical filters	A12-L03D	polymer use in	A12-E07C		
(electro)photographic	A12-L03D	Organic substrates	M13-F03C		
production of	G06-D06B	Metal coatings, processes	M13-F03C		
Optical glass component	L01-G04D	Organic treatment of pigment/filler	G01-B03		
coating	L01-G04D	Organic waste fermentation	D05-A04A		
Optical glass fibres	L01-F03M	Organo silane adhesion improvers	A08-M01D		
cable manufacture	L01-F03L	Organoaluminium + transition metal (compound)	A02-A06C		
coating	L01-F03A1	polymerisation catalyst	A02-A06C		
core and sheath	L01-F03F1	Organoaluminium compound (not with transition metal/ compound) as polymerisation catalyst	A02-A07C		
manufacture	L01-F03F1				
cutting and joining	L01-F03H				
drawing and spinning	L01-F03G				
manufacture, multicore	L01-F03J				
and elliptical single core	L01-F03J				
manufacturing apparatus	L01-F03K				
preform manufacture	L01-F03F				
with preformed sheath	L01-F03F4				
and core	L01-F03F4				
Optical memory elements	L03-G04B				
Optical parts of vehicles (polymer use)	A12-T04A				
Optical processes	B11-C08J C11-C08J				

Osmium compounds	B05-A03B C05-A03B	Oxazine (excluding morpholine)	B07-E02 C07-E02	Oxidised polymers	A10-E11
inorganic	E35-X	condensants	E07-E02	Oxidising agents	
organic	E05-N	Oxazole	A01-E06	as crosslinkers	A08-C05
Osmosis	E05-N02A		B07-E01	as polymerisation catalysts	A08-D
in water treatment reverse	J01-C03		C07-E01	Oxidising agents as disinfectant	A02-A+
Osmotic pump	A12-W11A	photographic brighteners	E07-E01	other than of food or air	D09-A01A
	B12-M01A1	Oxazoli(di)nes condensants	G06-H09A	Oxidising, using gas	M13-D03B
	C12-M01A1	Oxazolines chain couplers	A01-E06	Oxidoreductase	B04-B02C2
Osteoarthritis treatment	B14-C09A	for polymers	A02-B		B04-L03
	C14-C09A	Oxepine	B07-A03		C04-B02C2
Other condensation polymer coatings	A12-B01V		C07-A03		C04-L03
Osteogenesis treatment	B14-N01B		E07-A03C	Oxidoreductase	agonists B14-
	C14-N01B	Oxetane	B07-A03	L01A1	
Osteoporosis treatment	B12-J08		C07-A03		C14-L01A1
	B14-N01A	condensants	E07-A03C	Oxidoreductase enzyme	
	C12-J08	Oxidase agonists	A01-E08	process	D05-A01B1
	C14-N01A		B14-L01A1		D05-A02A
Other processes, appts.	B11-C09	Oxidase inhibitors	C14-L01A1	Oxidoreductase inhibitors	B12-G01B1
	C11-C09		B14-D05A	general and other	C12-G01B1
Apparatus	B11-C09B		C14-D05A		B14-D05
	C11-C09B	Oxidation		Oxidoreductase production	C14-D05
Processes	B11-C09A	LOCOS	L04-C12C3	by fermentation	D05-C03B
	C11-C09A	polymers	A10-E11	Oxime	B10-A18
Oto-rhino laryngology	C12-L04	sewage and waste water	D04-B08		C10-A18
Outerwear	A12-C03	water	D04-A01K		E10-A18
	F04-C03	water using ozone	D04-A01K1		E10-A18A
Outset moulding	A11-B12+	water using other	D04-A01K2		E10-A18B
Ova	B04-F03		D04-B08	Oxirane	B07-A03
	C04-F03	Oxidation base, for dye			C07-A03
Oven cleaners	D11-D01B1	(general)	E26	condensant	E07-A03
Ovicide	C12-B04	Oxidation process	B11-C01	Oxonium compounds	A01-E07
Ovulation inhibitors	B12-G01		C11-C01		B10-A01
	B14-P01B	for polymers	E11-E	organic	C10-A01
	C12-G01	other than with air or	A10-E11	Oxy-diethanol	E10-A01
	C14-P01B	oxygen (O2) (catalytic)	N07-C03	condensant	A01-E14
Oxacyclobutanes	B07-A03	with air	E11-E01	Oxygen (element)	B05-C08
	C07-A03	with air (catalytic)	N07-C01		C05-C08
	E07-A03C	with oxygen (O2)	E11-E01		E31-D
condensants	A01-E08	with oxygen (O2) (catalytic)	N07-C01	in oxidation reaction	E11-E01
Oxadiazole	B07-E04	Oxidative polymerisation	A10-D06	Oxygen catalyst	
	C07-E04	Oxide catalyst carrier	L02-G12	for polymerisation	A02-A01
	E07-E04	for polymerisation	A02-D	Oxygen catalysts	N04-A
Oxalic acid	B10-C02	Oxide coating of metals by	M14-D01	Oxygen halide (organic)	B10-A02
	C10-C02	surface reaction			C10-A02
	E10-C02D	Oxide layers for semiconductors	L04-C12A		E10-A02
	E10-C02D1	Oxide network formers in		Oxygen stabiliser	A08-A06
Oxanol spectral sensitiser	G06-H07C	glass composition	L01-A07A	Oxygenase	
Oxathiazine	B07-G	Oxides of non-transition		agonists	B14-L01A1
	C07-G	metals as polymerisation			C14-L01A1
	E07-G	catalysts	A02-A07+	inhibitors	B14-D05C
Oxathiazole	B07-G	Oxides of transition metals			C14-D05C
	C07-G	as polymerisation catalysts	A02-A06A	Oxygenating devices	
	E07-G	Oxides, abrasive, harsh	L02-F04	(polymer use)	A12-V03B
Oxathiole	B07-C	Oxides, inorganic (general)	B05-C08	Oxyhalides of transition	
	C07-C		C05-C08	metals as polymerisation	
	oC07-E		E31-D	catalyst	A02-A06B
	E07-C	preparation	L02-G+	Oxytetracycline	B02-T
			L02-G12		C02-T



Oxytocin	B04-J05A
	C04-J05A
Oxyuris treatment	B12-B02
	B14-B03A
	C12-B02
	C14-B03A
Ozone	B05-C08
	C05-C08
	E31-D
generation	J03-A01
Ozone catalysts	N04-A
Ozone stabiliser	A08-A05
Ozonisation of polymers	A10-E11
Ozonised polymer	A10-E11

## P

Package formation of yarns	F01-H03D
Packaging involving heat sealing/welding	A11-C01A1
Packaging materials using	
films (laminates)	A12-P01A
glass	L01-L06
polyamide	A05-F01E3
	A12-P+
polyethylene	A04-G02E2
	A12-P+
polymer	A12-P+
polypropylene	A04-G03E1
	A12-P+
saturated polyester	A05-E01D3
	A12-P+
Packaging of	
coffee	D03-D01A
electr(on)ic devices	L03-J02
fabrics	F04-F04
food	D03-K03
glass	L01-J04
pharmaceutical and	
agricultural compositions	B12-M04
	C12-M04
photographic materials	G06-E
plastics	A11-C06
semiconductor devices	L04-C21
tea	D03-D02A
yarns	F01-H03+
Packaging types	A12-P+
aerosol containers	A12-P06A
bags	A12-P02
blister packs	A12-P06C
boil-in-bag packs	A12-D03
	A12-P02
bottles	A12-P06A
boxes, cartons, crates	A12-P06B
closures	A12-P03
collapsible tubes	A12-P06C
drums	A12-P05
film and laminates	A12-P01A
foam use in	A12-S04C
rigid packs	A12-P06B
sachets	A12-P06C
sacks	A12-P02
shrink	A12-P04
tanks	A12-P05
wrapping film	A12-P01A
Packing of polymer materials	A11-C06
Packing, sealing compositions	A12-R08
	G04-B02
Pails	A12-D04

Paint based on	
acrylics	A12-B01E
	G02-A02C
acrylics, containing	
aminoalkyl acrylates	A12-B01E
	G02-A02C3
acrylics, containing epoxy	A12-B01E
	G02-A02C1
acrylics, containing	
hydroxyalkyl acrylates	A12-B01E
	G02-A02C2
addition polymer, other,	
vinyl halide polymer	A12-B01F
	G02-A02D2
addition polymers, other	G02-A02D
addition polymers, other,	
diene or polyene polymers	A12-B01C
	G02-A02D1
addition polymers, other,	
unsaturated aromatic	
(styrenic) polymers	A12-B01G
	G02-A02D4
addition polymers, other,	
vinyl ester or	
unsaturated acid polymer	
excluding acrylic	A12-B01F
	A12-B01H
	G02-A02D3
alkyd resin	G02-A02E
aminoplasts	A12-B01J
	G02-A02F
emulsions	A12-B01A
epoxy resins	A12-B01L
	G02-A02G
inorganic film formers	A12-B01C
	G02-A01+
inorganic polymer, silicone,	
or diene/polyene polymers	A12-B01C
natural polymers	A12-B01D
	G02-A02A
organic film formers	G02-A02+
phenoplasts	A12-B01J
	G02-A02F
polyesters	A12-B01H
	G02-A02E
polymer (general)	A12-B01+
polyurethanes	A12-B01K
	G02-A02H
silicones	A12-B01C
	G02-A01A
solvents	A12-B01B
vinyl ester, or halogen	
containing addition polymers	A12-B01F
water	A12-B01A
Paint brushes	A12-D03
Paint spray booths	
cleaning/maintenance	G02-A06A

Paint, based on		Pancreatitis	B14-N13	Paper making process	
general addition polymers	A12-B01W	Pancroezymmin	B04-J13	addition polymer in pulp	
general condensation			C04-J13	(cellulosic)	A12-W06B
polymers	A12-B01X	Panels			F05-A06C
Painting, general	A11-B05+	decorative laminate	A12-A04A	cleaning/sterilisation of	
	G02-A06+	furniture	A12-D01	equipment	F05A04E
Paints	A12-B+	of reinforced polymer	A12-S08A	condensation polymer in	
	G02-A+	solar	A12-R02B	pulp (cellulosic)	A12-W06C
additives	G02-A03+	wall, ceiling	A12-R07		F05-A06C
applied to cloth/felts	A12-B02+	Panes, window	A12-R04	from non-cellulosic polymer	A12-W06A
applied to glass/glass fibre	A12-B05	Pans	A12-D03		F05-A06E
applied to inorganic material	A12-B08	Pantographs	L03-A01A4	mechanical treatment of	
applied to leather	A12-B06	Pants, baby	A12-V03A	fibrous raw material	F05-A01
applied to metal	A12-B04+		D09-C03	methods	F05-A04
applied to others	A12-B	Panty hose	F04-C01	natural polymer in cellulosic	
applied to paper	A12-B03		F04-C02	pulp	A12-W06D
applied to polymer	A12-B07+	Papain	B04-B02C3	polymer use in, general	A12-W06+
applied to wood/cellulosics	A12-B09		B04-L05C		F05-A06C
chemical removers	A11-C07		C04-B02C3	pretreatment of digested	
general addition polymer	A12-B01W		C04-L05C	material	F05-A03
general condensation		Papaverine	B04-A04	pulp after-treatment	F05-A02B
polymer	A12-B01X		C04-A04	pulp purification	F05-A03
magnetic	L03-B02H	Paper	A12-W06+	pulping	F05-A02A
pigments (organic)	A08-E04		B04-C02A	regeneration of pulp liquor	F05-A02C
	G02-A03A		C04-C02A	testing	F05-A05A
powder forms	A12-B01+		F05-A+	PAPI condensant	A01-E02
	A12-S09	addition of non-polymer	F05-A06D	Papier-mache, manufacture	
road, traffic signs	A12-R	addition of polymer or resin	A12-W06+	of articles	F05-A07
	G02-A05F		F05-A06C	Parachutes	F04-E02
skin	B12-M02	coatings on	A12-B03	Paraffin wax	B04-B01C
	C12-M02		F05-A06B		C04-B01C
solvent based	A12-B01B		G02-A05C	lubricant	A08-M03+
water based	A12-B01A	composition	F05-A06+	Paraffins (aliphatic	
Palladium		composition, containing		hydrocarbon)	B10-J02
alloys	M26-B01	polymer	A12-W06+		C10-J02
containing glass	L01-A02B		F05-A06C		E10-J02D
electrodeposition	M11-A05	cutting	F05-A05	Parasite	
production	M25-G20	felts, use of fabric	F04-E05A	microbial	B04-F01
Palladium catalysts	N02-F	felts, use of polymer	A12-H04		C04-F01
element, not on C	N02-F02	manufacture	A12-W06+	Parasympathetic blocker	B12-E04
element, on C	N02-F01		F05-A+		B14-J02B
for polymerisation	A02-A06+	manufacture, fibreboard	F05-A07		C12-E04
Palladium compounds	B05-A03B	multiply	F05-A06A		C14-J02B
	C05-A03B	testing	F05-A05	Parasympathetic stimulant	B12-E05
carboxylate catalysts	N02-F04	Paper making machine	A12-H+		B14-J02A
inorganic	E35-X		F05-A04+		C12-E05
inorganic salt catalysts	N02-F03	accessories	F05-A05		C14-J02A
organic	E05-M	complete	F05-A04D	Parasympatholytic	B12-E04
	E05-M02C	dewatering	F05-A04B		B14-J02B
Palladium in glass composition	L01-A02	embossing equipment	F05-A05B		C12-E04
Pallets	A12-T	forming equipment	F05-A05B		C14-J02B
Pancakes	D01-B02F	head boxes	F05-A04A	Parasympathomimetic	B12-E05
Pancreas treatment	B14-N13	methods of producing paper	F05-A04+		B14-J02A
	C14-N13	press and drier sections	F05-A04C		C12-E05
Pancreas, artificial	D09-C01C	stamping equipment	F05-A05B		C14-J02A
Pancreatic hormone	B04-B02D2	testing equipment	F05-A05A	Parathyroid hormone	B04-B02D3
	C04-B02D2	wet end, general	F05-A04A		B04-J04B
Pancreatic hormone general	B04-J03				C04-B02D3
	C04-J03				C04-J04B

Paresis	B12-E02 C12-E02	Pattern plates	M22-C02	Peptising agents for polymers	A08-M08
Parisons		Patterning processes for printed circuits	L03-H04E2	Peracid, inorganic (general)	B05-C08 C05-C08 E31-E
(pre)heating of	A11-A02B	Patterns, foundry	M22-C	Perchlorinated polymers	A10-E04A
blow moulding of	A11-B10	Patterns, lost	M22-C01	Perchlorination	A10-E04A
glass, formation	L01-E02	Paving compositions	A12-R09	Perchlorovinyl polymer	A10-E04A
Parkinson's disease		PBT	A05-E04+	Percutaneous	B12-M02F C12-M02F
Parkinson's disease treatment	B12-C04 B14-J01A3 C12-C04 C14-J01A3	fibres	F01-D04	Perfluoroalkyl acrylate polymers	A04-E10D
Partially hydrolysed		PCTFE	A04-E10D	Perfluoroalkyl methacrylate polymers	A04-E10D
ethylene-vinyl acetate copolymer	A10-E09+	PE	A04-G02+	Perforating polymers	A11-A05A
polyvinyl acetate	A10-E09+	Peat	B04-A07D1 B04-A09J C04-A07D1 C04-A09J H09-B	Perfumes	B12-L07 B14-R04 C12-L07 C14-R04 D10-A05
Particle accelerator, use of electro(in)organics	L03-H04D	Pectin	B04-C02D C04-C02D	in air (masking)	D09-B04
Particle board	F05-A07	Peek ®	A05-J10	in cosmetics	D08-B12
polymer use in	A12-A04B	Pellet	B12-M11D C12-M11D	in detergents	D11-B23
Particle engineering	B11-C13 C11-C13	Pelleting of polymers	J04-A05 A11-A04	Perhalate (organic)	B10-A02 C10-A02 E10-A02
Particle counters		Pellets as carriers for microorganisms	D05-A03A	Periodontal treatment	B14-N06B C14-N06B
for neutrons	K08-A01	Pelmets	A12-R02	Peripheral vascular disorder treatment	B14-F02F+ C14-F02F+
for charged particles	K08-A02	Pelt shearing machine	D07-A	Perlon ®	A05-F03
for gamma and cosmic rays	K08-A03	Pencil (lead)	G02-A04	Permeability	
for X-rays	K08-A04	containing polymer	A12-D05B	property of polymer	A09-A09
Particles of polymers	A12-S09+	Pendant device	B12-M10A5 C12-M10A5	Permeability reducers	A12-W10C
Parylene ®	A05-J	Penicillins		Permeable membranes	A12-W11A J01-C03 D04-A01D
Passivating and insulating layers for semiconductor devices	L04-C12	6-acetamido other	B02-P03 C02-P03	for water treatment	D04-A01D
Passivating layers, glass for semiconductor devices	L04-C12D	6-acetamido, alpha-substituted by N-atom	B02-P02 C02-P02	Permucosal administration	B12-M11F C12-M11F
Passivating layers, plastics for semiconductor devices	A12-E07C L04-C12E	general	B02-P C02-P	Peroxidases	B04-L03B C04-L03B
Passivation coating of metal	M14-D	Pens	A12-D05B	agonists	B14-L01A1 C14-L01A1
chromate layer	M14-D03	Pentacene	B08-B C08-B E08-B	inhibitors	B14-D05B C14-D05B
oxide layer	M14-D01	1,3 Pentadiene	E10-J02C	Peroxide	
phosphate layer	M14-D02	(co)polymers	A04-B	catalysts	N04-A
Passive deodorisation/disinfection	D09-B01C	monomer	A01-C05	catalysts, polymerisation	A02-A01
Pasta	D01-B02E	Pentaerythritol	E10-E04H3	crosslinkers	A08-C05 A08-D
Paste	A12-S10 B12-M02 C12-M02	condensant	A01-E14	redox catalyst for polymerisation	A02-A03
polymeric coating process	A11-B05D	tetraacrylate (co)polymers	A04-A03	Peroxide disinfectants (not of food or air)	D09-A01A
Pasteurising food	D03-H02	tetraacrylate monomer	A01-B03	Peroxide, inorganic (general)	B05-C08 C05-C08 E31-E
Pastilles	B12-M01 C12-M01	Pentane volatile blowing agent	A08-B04B	Hydrogen peroxide	E31-E01
Pastry products	D01-B02D	Penton ®	A05-H	Inorganic peroxide (general)	E31-E05
Patient compliance methods	B11-C11A C11-C11A	Pepsin antagonist	B12-G01B3 B14-D07C C12-G01B3 C14-D07C	Perborate	E31-E04
Pathology (polymer use in)	A12-V03C2	Peptide hydrolases	B04-L05C C04-L05C	Percarbonate	E31-E02
Pattern cards for (including design)		Peptide nucleic acid	B04-E10 C04-E10 D05-H12D9	Persulfate	E31-E03
knitting machines	F02-B01				
looms	F02-A02				
Pattern control in					
knitting	F02-B01				
weaving	F02-A02				

Peroxide, organic	B10-A04 C10-A04 E10-A04B+	Phagocytosis treatment	B12-D2 C12-D2	Phenoplast	A05-C+
Peroxide, vulcanising agent (addition polymers)	A08-C05	Pharmaceutical antidote general	B14-M02 C14-M02	adhesives	A12-A05D G03-B02E1
Peroxisome proliferator activated receptor	B04-K01X1 C04-K01X1	Pharmaceutical composition general	B12-M05 C12-M05	coatings, paints, varnishes	A12-B01J G02-A02F
Persalts - see also Peroxide crosslinker	A08-C05 A08-D	machine for producing	B11-C05 C11-C05	electrophotographic use fibres	A05-C01B2 A05-C+ A12-S05+
polymerisation catalyst	A02-A01	Pharmaceuticals	A12-V01	fibres, chemical features of foams	F01-D10 A12-S03
redox catalyst for polymerisation	A02-A03	Pharmacogenomics	B12-Q01A C12-Q01A	from monohydric phenol and aldehyde (excluding formaldehyde)	A05-C04
Personal face/body wash	D08-B09A2	Pharynx cancer	B14-H01F C14-H01F	from monohydric phenol and formaldehyde	A05-C03+
Liquid	D08-B09A2A	Phenanthrene	B08-D02 C08-D02	from polyhydric phenol	A05-C02
Solid	D08-B09A2B		E08-D02	in polymeric blends	A07-A+
Personal care compositions	D11-D01J	Phenanthridine	B06-D13 C06-D13	photographic use	A05-C01B2
Personnel dosimeter	K07-A01		E06-D13	resins	A05-C01+
Perspex®	A04-F06+	Phenanthroline	B06-D15 C06-D15	resins, compositions/ production	A05-C01A A05-C01B+
Persulphates - see also Peroxide			E06-D15	resins, uses	A05-C
crosslinker	A08-C05 A08-D	Phenazine	B06-D14 C06-D14	specific others	B06-F04 C06-F04 E06-F04
polymerisation catalyst	A02-A01		E06-D14	Phenothiazine	B06-E04 C06-E04 E06-E04
redox catalyst for polymerisation	A02-A03	Phenol	B10-E02 C10-E02	Phenoxazine	B06-E04 C06-E04 E06-E04
Pesticide (general)	B12-N01 B14-B01 C12-N01 C14-B01		E10-E02B E10-E02B1 E10-E02E E10-E02E1	Phenoxy resins	A05-H06
antidote	B12-J05D B14-M01E C12-J05D C14-M01E	Phenol based		Phenyl acrylate homopolymer	A04-F06+
use of polymers	A12-W04C	aldehyde resin (excluding formaldehyde)	A05-C04	Phenyl amine condensant	A01-E05
PET	A05-E04+	formaldehyde resin	A05-C03+	Phenyl methyl ketone	
dyeing of	F03-F07+	ketone resin	A05-C	crosslinker for other polymer	A08-D
fibres, chemical features of	F01-D04A	terpene resin	A05-J	crosslinker for unsaturated polymer	A08-C
pH Monitoring	J04-C02A	Phenol blocking agent	A02-C	photocatalyst for polymerisation	A02-A09
Petroleum		Phenol, condensant	A01-E13	Phenyl naphthylamine antioxidant	A08-A06
chemicals general	A01-B04	Phenol, thio - see also Thiophenol	B10-E01 C10-E01 E10-E01+	Phenylene diamines condensants	A01-E05
coke	H08-E02			Phenylene dichloride condensants	A01-E
fuel additives	A12-T03B H06-D	Phenolic		Phillips-type catalysts	A02-A06+
liquid paraffin	B04-B01C3 C04-B01C3	compound removal from water	D04-B06A	Phlogistic	B14-C05 C14-C05
nuclear applications to product, miscellaneous	K09-H H08-E	condensants	A01-E13	Phosgene condensant	A01-E12
resins	A03-C04	crosslinkers for other polymers	A08-D	Phosphate coating of metal by surface reaction	M14-D02
resins, in polymeric blend	A07-A01A	crosslinkers for unsaturated polymers	A08-C09	Phosphate glass compositions	L01-A07A
resins, production	A10-A	disinfectants (not food or air)	D09-A01B	Phosphates plasticisers/ extenders	A08-P05
Phage lambda	B04-F11 C04-F11	fibres	A05-C+ A12-S05+	Phosphates see also Phosphorus compounds	
Phage display libraries	B11-C10D C11-C10D		A05-A02	Phosphatides	B04-B01B B05-B01P C04-B01B C05-B01P D03-F07
Phagemids	B04-E08 B04-F11 C04-E08 C04-F11	Phenols, glycidyl ethers of			

Phosphide ceramic	L02-H03	Phosphorus containing aromatic compounds		Photoelectric cells	A12-E11B
Phosphodieseterases	B04-L05A1	with P-C bond	B05-B01F	Photoelectric elements (production)	G06-D06
Phospholipids	B04-B01B		C05-B01F	Photoelectric materials L03-G09J	
	B05-B01P	with P-halogen bond	E05-G02	Photographic	
	C04-B01B		B05-B01H	agent (miscellaneous)	G06-H+
	C05-B01P	with P-N bond	C05-B01H	apparatus	A12-L02A
	D03-F07		B05-B01K	binder	A12-L01
Phosphonitrile linear polymers	A06-B		C05-B01K		A12-L05D
Phosphonitrilic halides		with P-O (or S) bond	E05-G05	equipment	A12-L02A
condensants/monomer	A01-A02		B05-B01N	film support	A12-L01
Phosphonium compounds			C05-B01N	material	A12-L02+
aliphatic or alicyclic	B05-B01G	Phosphorus containing heterocyclic compounds	E05-G08	material, composition for electrical device	A12-L02B2
	C05-B01G	with P-C bond		material, composition for printing plate	A12-L02B1
	E05-G03A		B05-B01E	material, compositions containing other	
aromatic	B05-B01F	with P-halogen bond	C05-B01E	photosensitive polymer	A12-L02E
	C05-B01F		E05-G01	material, compositions containing unsaturated	
heterocyclic	E05-G02	with P-N bond	B05-B01H	monomer	A12-L02C
	B05-B01E		C05-B01H	material, compositions containing unsaturated	
	C05-B01E		B05-B01J	polymers	A12-L02D
	E05-G01		C05-B01J	process, general	A12-L02+
Phosphorus (element)	B05-B02A3	with P-O (or S) bond	E05-G04	process, general, apparatus (including lenses)	A12-L02A
	C05-B02A3		B05-B01M	support	A12-L01
production	E31-K04	Phosphorus incorporated/ incorporation by polymer modification	C05-B01M		G06-B+
use	E31-K07	Phosphorus oxide	E05-G07		
Phosphorus catalyst	N04-B			Photographic use of	
for polymerisation	A02-A+			(meth)acrylamide	
Phosphorus compounds				(co)polymers	A04-D04A1
inorganic	B05-B02A		A10-E20		A12-L+
	C05-B02A	production	B05-B02A3	(meth)acrylate (co)polymers	A04-F06E4
	E31-K	use (excluding catalysts)	C05-B02A3		A12-L+
inorganic, removal from		use in catalysts	E31-K04	phenoplasts, general	A05-C01B2
water	D04-B07B	Phosphorylation	E31-K01		A12-L+
organic	B05-B01	Photocatalysts	A10-E20	polyamides	A05-F01E3
	E05-G	for polymerisation	J04-E04B		A12-L+
Phosphorus containing		Photocatalytic apparatus	A02-A09	polyethylene	A04-G02E3
condensant	A01-A02	Photochemical process	J04-E09C		A12-L+
cross-linker (including polymer)	A08-C+		B11-C01	polypropylene	A04-G03E1
	A08-D05		C11-C01		A12-L+
detergent additive, inorganic	D11-B21		E11-P	PVA	A10-E09B
detergent additive, organic	D11-B18	Photochromic dye	E26	silicones	A06-A00E4
flame retardant for polymers	A08-F03	precursor	E26-B		A12-L+
flame retardant for textiles	F03-C03A	Photochromic materials	G04-A01		
monomer	A01-A02	Photoconductive polymer for electrophotography			
plasticiser (esters)	A08-P05		A12-L05B		
polymer	A06-B		G06-F03A		
Phosphorus containing		Photoconductors	L04-E05B		
aliphatic (or alicyclic) compounds		polymeric	A12-L05B		
with P-C bond	B05-B01G		G06-F03A		
	C05-B01G	Photoconductors for radiation sensitive system			
	E05-G03	inorganic	G06-F+		
with P-halogen bond	B05-B01H	inorganic, containing zinc oxide or selenium	G06-F07+		
	C05-B01H	organic	G06-F07A		
	E05-G03A	polymer	G06-F06		
with P-N bond	B05-B01L	Photocopying, electrostatic	G06-F03A		
	C05-B01L	Photocrosslinking	A12-L05+		
	E05-G06	Photodevelopable material for photosensitive system	A11-C02B		
with P-O (or S) bond	B05-B01P	Photodiodes	G06-C07		
	C05-B01P		A12-E11A		
	E05-G09				

crosslinkers for other polymers	A08-D+	condensant	A01-E11	ceramic	L02-G04
crosslinkers for unsaturated polymers	A08-C+	Phthalic condensants	A01-E11	compositions containing polymer	A12-W11H
Photomasking		Phthalimides, vinyl (co)polymers	A04-D08	for dyeing/printing fibres	F03-F17
opto-electronics	G06-D06B	monomer	A01-D01	formulations	E27-A01
printed circuits	G06-D06A	Phthalocyanine dye	E23	inorganic	A08-E02
	G06-E02	water insoluble	E23-B		G01-A+
	L03-H04E2	water soluble	E23-A	magnetic	L03-B05D1
semiconductor	G06-D06A	water soluble, non-reactive	E23-A02	morphology of	E27-B01
	G06-E02	water soluble, reactive	E23-A01	organic	A08-E04
	L03-H04E2	Phylloquinone	B03-J		E21
			C03-J		E22
Photopolymerisation of addition (co)polymers	A10-B06	Physical process (general)	E11-R		E23
Photoresists	G06-D04	Physical properties, testing	A09-C		E24
printing	G05-B	Physical treatment of pigment/filler	G01-B01		E25
Photoresists (polymer use)	A12-L02+	Physical treatment of pigment/filler	G01-B01	organic, for ink, crayons	G02-A04B
Photoresists materials	L03-G09P	Physical vapour deposition		organic, for paint	G02-A03A
for printed circuit boards	L03-H04E2	of ceramics	L02-A02B	polymeric, for ink	A12-W07E
for semiconductor	L04-C05	of metal	M13-F	treatment of	G01-B+
Photosensitive materials	A12-L02+	Physiological amelioration of potable water by specific additives	D04-A04	Pile	
microencapsulated	G06-C16	Physiological response in animals or plants test	B11-C08E2	cutting (fabrics)	F03-A
Photosensitive polymer for radiation sensitive system	A12-L02+		C11-C08E2	fabrics	A12-S05J
	G06-F03+	Phytohormone	B12-P04	Pile fabrics	A12-S05J
additives for (e.g. photosensitisers)	G06-F03D		C12-P04		F02-G03
light sensitive composition containing monomer	G06-F03B		C14-U01C	Piles treatment	B12-J04
light sensitive polymer containing compositions	G06-F03C	Pi bonded complex catalyst	N05-B		B14-E04
polymeric photoconductors	G06-F03A	Picene	B08-B	Pill resistant fabric treatment non-resinous	A12-S05R
resin system development	G06-G17		C08-B	resinous	F03-C04
system (type)	G06-C+		E08-B		A12-G02
Phototransistors	L04-E01G	Pickling foods	D03-H02D		F03-C04
Photovoltaic devices, photoelectric cells but see L03-E05 for solar cells	L04-E05D	Pickling metal with solutions or molten salts	M12-A	Pilling prevention in fabrics	F03-C04
Phthalate plasticisers	A08-P02	apparatus	M12-A04	Pillows	A12-D01
Phthalate, cellulose	A03-A03	disposal/regeneration	M12-A03		F04-D01
	B04-C02A3	processes	M12-A05	Pills	A12-V01
	C04-C02A3	solutions/salt mixtures	M12-A01		B12-M11
		solutions/salt mixtures, inhibitors for	M12-A02	Pilo erecting	C12-M11
Phthalates, diallyl (co)polymers	A04-B09	Picture frame	A12-D		B12-L05
monomer	A01-C01	Piezochromic dye (general)	E26		B14-R02
Phthalazine	B06-D06	Piezoelectric		Pipeline	C12-L05
	C06-D06	ceramic oxides	L02-G07B	Accessories	C14-R02
	E06-D06	compositons	A12-E15	control	H03-B03
Phthalethrin	B04-A07C	devices	A12-E15	fluid loss additive	J06-C02
	C04-A07C	material	L03-G10	installing	H03-B01
Phthalic (iso-, ortho- and tere-) condensant	A01-E11	polymer use	L03-G09A	repair	H03-B02
Phthalic acid	B10-C02		A12-E15	system	H03-B04
	C10-C02	Pig casting	M22-G01	testing	J06-C01
	C10-C02C	Pig iron production by processing iron	M24-B01A	transporting oil or gas	H03-B03
	E10-C02C	Pig production, blast furnace	M24-A02		H03-B
	E10-C02C1B	by applying additives	M24-A02A	Piperazine	B07-D11
	E10-C02C2B	making slags of special composition	M24-A02B		C07-D11
condensant	A01-E11	Pigmenting	A11-A01+	condensant	E07-D11
Phthalic anhydride	E06-A02	Pigments	A08-E+	Piperidine	A01-E05
					B07-D05
					C07-D05
					E07-D05
				condensant	A01-E05
				Piperylene	E10-J02C

(co)polymers	A04-B	protection from poisons	B12-J05E	Plasminogen	B04-B02C
monomer	A01-C05		B14-M01F		B04-L05C
Pipes - see also Hoses	A12-H02+		C12-J05E		C04-B02C
fittings	A12-H02C		C14-M01F		C04-L05C
forming	A11-B08C	protein	B04-B04A4	Plasminogen activator	B04-H15
lining process	A11-B09A		B04-N01		C04-H15
lining product	A12-H02D		C04-B04A4	Plaster (building)	L02-D01
mill (metal rolling)	M21-A03		C04-N01	board	A12-R01A
Piscicide	B12-N05	Pteridophytes	B04-A08B		L02-D07
	B14-B11		C04-A08B	Plaster (medical)	A12-V03A
	C12-N05	sap	B04-A07D4		B12-M02
	C14-B11		B04-A09H		C12-M02
Piston rings	A12-H08		C04-A07D4		D09-C04A
Pitch	A03-C03		C04-A09H	casts	A12-V03A
in polymeric blend	A07-A01A	stems	B04-A07D4	dental	D08-A06
Pitches, sports	A12-F01A		B04-A09H	sticking	B12-M02D
Pituitary gland hormones	B04-B02D4		C04-A07D4		C12-M02D
	B04-J05		C04-A09H	Plastic coatings on glass sheet	A12-B05
	C04-B02D4	whole	B04-A07D5		L01-C04B
	C04-J05		C04-A07D5	Plastic mixing	A11-A03+
Pizza bases	D01-B02D	whole plants general and		Plasticisation	A11-A03+
Placenta extract	B04-B04H	other	B04-A08	Plasticisers	A08-P+
	C04-B04H		C04-A08	coal tar fractions	A08-P08
Plaiting of fibres	F02-E01	whole tobacco	B04-A08C2	concrete additive	L02-D14E
Planes	A12-T+		C04-A08C2	epoxy compound	A08-P07
Planographic printing plate	A12-W07+	Plasma		ester, aliphatic, (excluding	
	G05-A01	arc welding or cutting	M23-D01	hydroxy acid)	A08-P04
Plant extract general	E04-A	containment (fusion		ester, aromatic, (excluding	
Plant or vessel scale,		reactors)	K05-A03A	phthalate)	A08-P03
prevention of	A10-G02	deposition (or ion) for		ester, hydroxy acid	A08-P06
Plant pots	A12-W04A	semiconductor processing		ester, inorganic	A08-P05
Plant repellents (additive		apparatus	L04-D04	ester, Phosphorus containing	A08-P05
for polymer)	A08-M02	deposition in		oils	A08-P08
Plants		semiconductor layer growth	L04-C01B	photographic	G06-H15
Angiosperms	B04-A08C2	semiconductor layer growth		phthalate	A08-P02
	C04-A08C2	apparatus	L04-D04B	waxes	A08-P08
antibodies to	B04-G10	etching of semiconductors	L04-C07D	Plastics	
	C04-G10	polymerisation	A10-B	ceramic composite	L02-J02B
Bryophytes	B04-A08A	reactors	J04-X01	coating on glass	A12-B05
	C04-A08A	spraying (flame) refractory			L01-C04
cells	B04-B04A2	or ceramic	L02-A06	coating on metal	A12-B04+
	B04-F08	spraying metal	M13-C		M13-H05
	C04-B04A2	techniques	K08-F	nuclear applications	A12-W11C
	C04-F08	techniques, application of			K09-A
extract general	B04-A07F	electro(in)organic materials	L03-H04D	passivating layers for	
	C04-A07F	treatment of polymer		semiconductor devices	A12-E07C
tracts general and other	B04-A10	surfaces	A11-C04E		L04-C12E
	C04-A10	Plasma (blood)		storage	A11-C06
growth regulant (general)	B12-P01	substitute	B12-H06	substrates for printed	
	C12-P01		B14-F11	circuits	A12-E07A
growth regulants	C14-U01		C12-H06		L03-H04E1
Gymnosperms	B04-A08C1		C14-F11	Plastification	A11-A03+
	C04-A08C1	Plasmids	B04-E08	Plastisol	A12-S10
polysaccharides	B04-C02D		C04-E08	Platelets	B04-F13
	C04-C02D	Plasmin	B04-B02C3		C04-F13
produced by tissue culture	B04-A07D5		B04-L05C	Platens, flat, pressing between	A11-B13
	B04-A08		C04-B02C3	Plates	
	C04-A07D5		C04-L05C	magnetic recording	L03-B05B
	C04-A08			printing	A12-W07+
				tableware	A12-D03

Plating - see also Chemical plating, Electrodeposition and Non-Electrolytic deposition/coatings		Pollen	B04-A09C	Polyalkyleneimines	A05-J07
Plating bath additives	A12-W12E	extracts	C04-A09C	Polyallomer	A04-G06+
Plating of polymers with metal	A11-C04B1		B04-A10D	Polyallyl (2 double bonds)	
Platinum			C04-A10D	sucrose	A04-A03
alloys	M26-B01	Pollution control		Polyallyl alcohol	A04-F
containing glass	L01-A02B	marine oil	H03-G01	Polyamic acid	A05-J01+
electrodeposition	M11-A05	oil	D04-B	Polyamide imides	A05-F
in glass composition	L01-A02	processes	A11-C07		A05-J01+
production	M25-G20	refineries	H05-L	Polyamideester	A05-E07
Platinum catalysts	N02-F	relative to use of fuels	H06-C	Polyamides (nylons)	A05-F+
carboxylate	N02-F04	Soil contamination	H03-G02		B04-C03D
element, not on C	N02-F02	storage and transport	H03-G		C04-C03D
element, on C	N02-F01	use of polymer	A12-W11+	aromatic	A05-F05
inorganic salts	N02-F05	using coagulants	A12-W11E	as cross-linkers	A08-C08
Platinum compounds	B05-A03B	using coagulants, for water	D04-A01B		A08-D04
	C05-A03B	using flocculants	A12-W11E	fabrication	A05-F01C
inorganic	E35-X	using flocculants, for water	D04-A01B	fibre filler	A05-F+
organic	E05-N	using poly-electrolytes	A12-W11E		A08-R08A
	E05-N02C	water treatment	A12-W11J	fibres, chemical features	
Pleating of fabrics	F03-A01	Polonium catalysts	N03-H	in production	A05-F+
Plexifilaments	F01-E02	Polonium compounds	B05-A04		F01-D03
Plexiglas®	A04-F06		C05-A04	fibres, dyeing/printing	A12-S05N
Plugging, well (polymer use)	A12-W10C	inorganic	E35-R	in polymeric blends	F03-F06+
Plumbic, plumbous compounds - see Lead		organic	E05-Q	preparation from dimerised	A07-A+
Plutonium compounds	B05-A04	Poly(4-vinyl-N-butylpyridinium bromide) (modified polymer)	A10-E19	fatty acid and	
	C05-A04	Poly(chloromethyl substituted styrene) quaternised using tertiary amine	A10-E19	diethylenetriamine	A05-F04
inorganic	E35-R			tyre cord	A05-F01E
organic	E05-Q	Poly(1,3-imidazolidine dione-2,4,5-trione)	A05-J02		A12-T01C
Plying of yarns, fibres	F01-H01	Poly(2,6-dimethyl-1,4-phenylene oxide)	A05-H07A		F04-E01
Plywood	A12-A04C	Poly(4-methylpentene-1) (co)polymers	A04-G10	Polyamine, with aromatic amino	B10-B01A
PMMA	A04-F06+	Poly(alkyl vinyl ketones)	A04-F03		C10-B01A
Pneumatic laying of non-woven fabrics	F02-C02+	Poly(meth)acrylates in polymeric blends	A07-A+	Polyamine, without aromatic amino	E10-B01A
Pneumatic tyres	A12-T01+	Poly(N-methylol-methacrylamide)	A04-D04+		B10-B01B
Poisoning by heavy metal treatment	B12-J05C	Poly-p-xylylene resin	A05-J	with carboxy deriv	C10-B01B
	B14-M01D	Polyacetal resin	A05-H02+	with Hydroxy, ether	E10-B01B
	C12-J05C	production, composition	A05-H02A	with Mercapto(ether)	E10-B01E
	C14-M01D	Polyacrolein	A04-F02	Polyamine- polymaleimide polymers	E10-B01D
Polarisers		Polyacrylamide - see also Acrylamide, polymer	A04-D04+	Polyaminoamide (Versamid)	A05-J11
for liquid crystal displays	L03-G05B7B	Polyacrylate polymer paint	A12-B01E		A05-F04
Polarity, optical	A09-A02A		G02-A02C+	Polyaminoamides from polymerised vegetable oil acids and polyamines	A05-F04
Polarography testing	B11-C08B	Polyacrylic acid or anhydride - see also Acrylic acid or anhydride polymer	A04-F04+	Polyaminobismal- eimide	A05-J11
	C11-C08B	Polyacrylic ester - see also Acrylate, alkyl polymer	A04-F06+	Polyammonium methacrylate	A04-D09
Polaroid® - type development	G06-E03	Polyacrylonitrile - see also Acrylonitrile, polymer	A04-D02+	Polyanhydride	A05-J03
Polishing		Polyacryloyl chloride	A04-E	Polyarylate	A05-E10
glass	L01-G06	Polyalkenamers	A04-G	Polyarylene ethers	A05-H07A
metal, electrolytic	M11-H02	Polyalkylene oxide detergents	A05-H+	Polyarylene sulphides	A05-J05A
metal, non-electrolytic	M14-B		A12-W12+	Polybasic (acid) condensant (cyclo)aliphatic	A01-E12
polymer	A11-C04		D11-A03A	aromatic	A01-E11
Polishing composition (excluding French)	A12-B01+			Polybenzimidazo- pyrrolones	A05-J02
	G02-C			Polybenzimidazoles	A05-J02
abrasive	A12-A03			Polybenzobisthiazole	A05-J02
	G04-B04			Polybenzothiazole	A05-J02
	L02-F				
French	G02-B05				



Polybenzothiazolene	A05-J02	esterification	A10-D05	fibres, dyeing	A12-S05N
Polybenzoxazoles	A05-J02	interfacial	A10-D01		F03-F07+
Polybenzyl acrylate	A04-F06+	ordered	A10-D02	fibres, printing	A12-S05Q
Polybisbenzimidazo-		ring-closure, ring-opening	A10-D03		F03-F07+
benzophenanthroline	A05-J02	Polycrystalline layers in		non-linear (alkyd resin)	A05-E08
Polyblends	A07-A+	semiconductor processing		polyol based polyurethane	A05-G02
Polybromobutyl acrylate	A04-E	see also L4-C10B	L03-C04	Polyesters, saturated	A05-E+
Polybutadiene	A04-B02+	Polycyanide (organic)	B10-A15	based on aliphatic acid	A05-E02
Polybutadiene diol and			C10-A15	based on aromatic acid	
isocyanate based			E10-A15A	(excluding iso and	
polyurethane	A05-G	Polycyanurates from dicyanates	A05-J02	terephthalic acids)	A05-E05
Polybutadiene in polymeric		Polycyclic quinone dye	E22-E	based on Hydroxyacids	A05-E02B
blends	A07-A+	Polycyclohexyl methacrylate	A04-F06+	based on isophthalic acid	A05-E03
Polybutadiene, production	A04-B02A	Polydiallyldimethyl ammonium		based on lactones or	
Polybutene-1	A04-G04	chloride	A04-B	glycolides	A05-E02C
Polybutene-2	A04-G	Polydiene polyol		based on saturated	
Polybutenyl succinimide	A10-E03	polyurethanes	A05-G	(cyclo)aliphatic, dicarboxylic	
Polybutylene terephthalate		Polydiolefin in polymeric		acids and dihydric alcohols	
(PBT)	A05-E04+	blends	A07-A+	or phenols	A05-E02A
dyeing of	F03-F07+	Polydodecamethylene		based on terephthalic acid	A05-E04+
fibres, chemical features of	F01-D04	dodecane-dioic amide	A05-F02	based on terephthalic	
Polycaprolactam	A05-F03	Polydodecanolactam	A05-F03	acid, application	A05-E04E
Polycaprolactone polyol		Polyelectrolytes	A12-M+	based on terephthalic	
polyurethane	A05-G02	acrylic	A12-M01	acid, compounding	A05-E04B
Polycapryllactam	A05-F03	others	A12-M02	based on terephthalic	
Polycarbamates	A05-G+	Polyenantholactam	A05-F03	acid, fabrication	A05-E04C
Polycarbodiimides	A05-J09	Polyene		based on terephthalic	
Polycarbonates	A05-E06+	dye	E25-B	acid, production	A05-E04A
compositions	A05-E06A	polymer coatings	A12-B01C	based on terephthalic	
fibres, chemical features of	F01-D04		G02-A02D1	acid, treatment	A05-E04D
fibres, chemical features of,		polythiol polymers	A05-J05	composition	A05-E01A2
dyeing of	A12-S05N	Polyepichlorohydrin	A05-H04	production	A05-E01A1
	F03-F07+	Polyepihalohydrins	A05-H04	textiles, textile treatment	A05-E01B+
in polymer blends	A07-A+	Polyepisulphides	A05-J05	textiles, textile treatment,	
printing of	A12-S05Q	Polyepoxides	A05-A+	chemical treatment	A05-E01B2
	F03-F07+	cycloaliphatic	A05-A05	textiles, textile treatment,	
production	A05-E06A	Polyesteramides	A05-E07	mechanical treatment	A05-E01B1
uses	A05-E06B	fibres, chemical features of	F01-D03	textiles, textile treatment,	
Polycarboranes	A06-C		F01-D04	uses	A05-E01B3
Polycarboxy methylene	A04-A03	Polyesterether	A05-E09	Polyesters, unsaturated	A05-D02+
	A04-F04+	from poly (tetramethylene		application	A05-D02E+
Polycarboxylic acid	B10-C02	ether) glycol, dimethyl		application, building	
	C10-C02	isophthalate and		components, laminates	A05-D02E1
	E10-C02	ethylene glycol	A05-E03	compounding	A05-D02B
Polycarboxylic condensants			A05-E09	fabrication	A05-D02C
(cyclo)aliphatic	A01-E12		A05-H05	production	A05-D02A
aromatic	A01-E11	Polyesterification	A10-D05	treatment	A05-D02D
Polychloroalkane	E10-H02H	Polyesterification		Polyesterurethanes	A05-G02
	E10-H03C4	modification	A10-E07+	foams	A12-S02+
	E10-H04C4	Polyesterimides	A05-E07	Polyetheresters	A05-E09
Polychloroalkene	E10-H02G		A05-J01+	fibres, chemical features	
	E10-H03C3	Polyesterpolyol and isocyanate		of	F01-D04
	E10-H04C3	based polyurethanes	A05-G02		F01-D10
Polychloroalkyne	E10-H02G	Polyesters - see also Polyester		Polyetherketones	A05-J10
	E10-H03C3	saturated, and Polyesters,		Polyetherpolyol and	
	E10-H04C3	unsaturated		isocyanate based	
Polychloroprene	A04-B08	adhesives/binders	A12-A05E	polyurethane	A05-G03
Polychlorotrifluoro-ethylene	A04-E10D		G03-B02E3	Polyethers	A05-H+
Polyclonal Antibodies	D05-H11B	coatings/paints	A12-B01H		B04-C03C
Polycondensation	A10-D+		G02-A02E+		C04-C03C
apparatus and equipment	A10-D04	fibres, chemical features		based on dihydric phenol	A05-H06
electrolytic/oxidative	A10-D06	in production	F01-D04		

based on ethylene oxide	A05-H03+	cocondensate (nylon 6:6/6:9/6)	A05-F02	general	A12-B04+
based on ethylene oxide, composition	A05-H03A		A05-F03	preparation of compositions;	
based on ethylene oxide, production	A05-H03A	hexamethylene isophthalamide		resinous metal treatment	A12-B04B
based on furan	A05-H05	cocondensate (nylon 6:6/6iP)	A05-F	using acrylic resins	A12-B04D
foam	A12-S02D		A05-F02	using natural, inorganic or condensation resin	A12-B04C
in polymeric blends	A07-A+	hexamethylene sebacamide-caprolactam cocondensate (nylon 6:6/6:10/6)	A05-F02	using other addition polymer(s)	A12-B04F
polyether polyol based polyurethane	A05-G03		A05-F03	using vinyl ester or halogen addition polymer	A12-B04E
propylene oxide based (including epihalohydrins)	A05-H04	hexamethylene terephthalamide cocondensate (nylon 6:6/6:6T)	A05-F	Polymer coatings on polymer (use)	
Polyethersulphones	A05-J06		A05-F02	general	A12-B07+
Polyetherurethanes	A05-G03	Polyhexamethylene azelaamide	A05-F02	on films (optionally laminated)	A12-B07A
foams	A12-S02D	Polyhexamethylene dodecanedioic amide	A05-F02		A12-S06C+
Polyethylene - see also Ethylene, polymer	B04-C03B	Polyhexamethylene isophthalamide	A05-F	on foams	A12-B07B
	C04-C03B	Polyhexamethylene sebacamide	A05-F02	on tubes, cables or other profiles	A12-B07C
fibres, chemical features of	F01-D05	Polyhexamethylene terephthalamide	A05-F	Polymer use	
fibres, dyeing/printing	F03-F08	Polyhexene-1	A04-G	Adsorption	A12-W11D
homopolymer	A04-G02+	Polyhexyl acrylate	A04-F06+	Polymerase	
Polyethylene glycol	A05-H03	Polyhydantoin	A05-J02	agonists	B14-L01A2
Production	A05-H03A1	Polyhydrazides	A05-J09	inhibitors	C14-L01A2
Composition	A05-H03A3	Polyhydric alcohol acrylic esters	A04-F06+		B14-D06A
Polyethylene imine	A05-J07	Polyhydric alcohol condensants	A01-E14		C14-D06A
Polyethylene naphthalate	A05-E05A	Polyhydric phenol condensants	A01-E13	Polymeric	A08-M03
Polyethylene oxide	A05-H03+	Polyhydric phenols-aldehyde resins	A05-C02	adhesion promoter for polymers	A08-M01B
Homopolymer Production	A05-H03A1	Polyimides	A05-J01+	animal repellent	
Homopolymer Composition	A05-H03A3	Polyimines	A05-J11	compounds	A08-M02
Copolymer Production	A05-H03A2	Polyindene	A04-C	antiseptic compounds	A08-M02
Copolymer Composition	A05-H03A4	Polyisobutene	A04-G05	conductors, electrical	L03-A02D
Polyethylene terephthalate - see also Polyester, saturated, based on terephthalic acid	A05-E04+	Polyisobutenyl succinimide	A10-E03	cross-linking/curing agents	A08-C08
chemical features of fibres	F01-D04A	Polyisobutylene	A04-G05+		A08-D+
dyeing of fibres	A12-S05N	Polyisocyanates		dye or precursor	E24-B
	F03-F07+	condensants	A01-E02	dyeing aids	A08-M01A
Polyethylene terephthalate isophthalate	A05-E03	crosslinkers	A08-C09A	fibrous filler for polymers	A08-R08A
	A05-E04+		A08-D04A	fillers	A08-R08+
Polyfluoroacrylates	A04-E10D	Polyisocyanurates	A05-J02	fungicidal compounds	A08-M02
Polyformaldehyde	A05-H02+	Polyisomaltose	B04-C02	halogen containing	
Polyfunctional stabilisers	A08-A01+		C04-C02	flame retardants	A08-F04A
Polygermanates (polymerisation product)	A06-D	Polyisoprene		impregnants and coatings for concrete	L02-D14M
Polyglutamic acid	A05-F03	(co)polymers, butyl rubber	A04-G05A	impregnants and coatings for concrete	A12-R01A
Polyglycerol	A05-H	copolymers	A04-B07	paper, synthetic	A12-W06+
Polyglycerol polyether	A05-H	homopolymer	A04-B06		F05-A06+
Polyglycidyl compounds - see also Epoxy resins	A05-A+	Polyitaconic acid	A04-F05	particulate filler for polymers	A08-R08B
Polyglycidyl isocyanurate	A05-A04	Polyketones including polyether-ketones	A05-J10	reinforcing agents	A08-R08+
Polyhexafluoro- propylene	A04-E10D	Polylauryllactam	A05-F03	supports for magnetic recording	A12-E08A+
Polyhexamethylene adipamide	A05-F02	Polymaleic acid/anhydride (co)polymer	A04-F05		L03-B05L1
caprolactam		Polymaleimide- polyamine polymers	A05-J11	Polymerisation	B11-C01
cocondensate (nylon 6:6/6)	A05-F02	Polymer coatings on metal			C11-C01
	A05-F03			controllers	A02+
hexamethylene azelaamide cocondensate (nylon 6:6/6:9)	A05-F02			controllers, catalysts	A02-A+
hexamethylene azelaamide- caprolactam				controllers, chain transfer agents	A02-B
				controllers, inhibitors	A02-C
				controllers, modifiers	A02-B

controllers, regulators equipment	A02-B A10-B01 A10-D04	Polymers general (excluding polypeptide and polysaccharide)	A01 B04-C03 C04-C03	Polymethylene polyphenylene polyisocyanate condensant	A01-E02 B02-P01 C02-P01
equipment, cleaning	A10-G			Polynaphthenate polymers	A05-E05A
equipment, scale prevention/ reduction	A10-G02	addition in paper manufacture	A12-W06+ F05-A06C	Polynonanactam	A05-F03
natural polymer production	A10-A			Polynorbornene (rubber)	A04-G
process, addition	A10-B+	additives for concrete	A12-R01A L02-D14F	Polynosic fibres	
process, condensation	A10-D+			chemical features	F01-D06
process, gasoline		additives for polymers	A08+	dyeing/printing	F03-F09
preparation	H04-D01	analysis of	A09-B	Polyuclear mono- or poly hydric phenols	
process, ordered	A10-C+	blends/mixtures	A07-A+	condensants	A01-E13
Polymerisation catalysts	A02-A+	bonded to antigen or antibody	B11-C07A6 C11-C07A6	Polyoctene-1 (co)polymers	A04-G
Alfin	A02-A05			Polyol condensants	A01-E14
alkali(ne earth) metal containing organic compound	A02-A07B	bonded to enzyme	A12-W11L D05-A01A2	Polyolefins	A04-G+ B04-C03B C04-C03B
azo	A02-A02	bonded to non-woven fabrics	A12-B02B	adhesive/binder (based on)	A12-A05B2 G03-B02D3
biocatalyst	A02-A12	carriers for microorganis	D05-A03A	fibres dyeing/printing	A12-S05P F03-F08
enzyme	A02-A12	carriers for microorganisms	A12-W11L		
free radical	A02-A03	detergent additive	D11-B19	fibres, chemical features	
Friedel-Craft	A02-A04	detergent additive, for fibres	A12-W12A	in production	F01-D05
inhibitors	A02-C	detergent additive, for others	A12-W12B	foaming processes	A12-S04A1
metallic (non-transition metal)	A02-A07+	filled with non-metallic conductors	L03-A02E	foams (compositions)	A12-S04A2
organoaluminium compound (not with transition metal/compound)	A02-A07C	film laminates	A12-S06C	in polymeric blends	A07-A+
organoaluminium compound + transition metal/compound	A02-A06+ A02-A06C A02-A07A	in paper	A12-W06+ F05-A06C	stabilisers for	A08-A01A1
		natural	A03+ B04-C03D C04-C03D	Polyoxadiazoles	A05-J02
organometallic (non- transition metal)	A02-A07+	of metal containing compound (including Boron, Phosphorus, Silicon) as crosslinkers		Polyoxazoli(di)nes	A05-J02
P containing (excluding with transition metal/ compound)	A02-A11		A08-C08 A08-D05	Polyoxazolidones	A05-J02 from diglycidyl ether of bisphenol A and polyisocyanate
peroxide	A02-A01				A05-A02 A05-J02
persalt	A02-A01			Polyoxyethylene copolymers	A05-H03+ A05-H03A2 A05-H03A4
redox	A02-A03			Production	
support	A02-D			Composition	
transition metal (compound)	A02-A06+	pigment/filler treatment with removal from water	G01-B03 A11-C07 D04-B06	Polyoxyethylene homopolymers	A05-H03+ A05-H03A1 A05-H03A3
transition metal halide or oxyhalide	A02-A06B	sheet laminates	A12-S07A	Production	
transition metal oxide	A02-A06A	testing of	A09-C	Composition	
Ziegler (general)	A02-A06+	Polymers, proteinaceous	A03-C01	Polyoxymethylene (co)polymers	A05-H02+ A05-H04+ A05-H04A2 A05-H04A4
Ziegler (halide containing)	A02-A06B	Polymethacrylamide	A05-F02	Polyoxypropylene copolymers	
Polymerised		Polymethacrolein	A04-F02	Production	
drying oils	A03-C	Polymethacryloyl chloride	A04-E	Composition	
vegetable oil acids and polyamine based polyamides	A05-F04	Polymethacrylamide - see also Acrylamide, polymer	A04-D04+	Polyparabanic acid	A05-J02
Polymerising		Polymethacrylic acid	A04-F04+	Polyparaxylylene	A05-J
condensant during coating	A11-B05C	Polymethacrylic anhydride	A04-F04+	Polyparaxylylene dodecanedioic amide	A05-F02
monomer during coating	A11-B05C	Polymethacrylic ester	A04-F06+	Polypeptides	A03-C01 B04-C01 C04-C01
Polymers	A11-C07	Polymethacrylonitrile	A04-D02+		
removal from water	D04-B06D	Polymethyl isopropenyl ketone (co)polymer	A04-F03	Modified/cyclic	B04-C01H C04-C01H
		Polymethyl methacrylate (PMMA)	A04-F06+	animal	B04-N02 C04-N02
		Polymethyl vinyl ketone	A04-F03	from microorganisms	B04-N03 C04-N03

bacterial	B04-N03C B04-N03D C04-N03C C04-N03D	Polysaccharides	A03-A+ B04-C02 C04-C02	Polythiourethanes	A05-G
fungal	B04-N03G B04-N03H C04-N03G C04-N03H	bisynthesis	D05-C08	Polytitanates (polymerisation product)	A06-D
viral	B04-N03E B04-N03F C04-N03E C04-N03F	bound to enzyme	D05-A01A1	Polytriazoles	A05-J02
plant	B04-N01 C04-N01	general	A03-A01+	Polytrimethyl dihydroquinoline	A04-D08
polypeptide general	B04-N04 C04-N04	other non-cellulosics (not specified elsewhere)	A03-A+	Polyundecanolactam	A05-F03
production by fermentation	A10-A D05-C11	textiles	A03-A01A	Polyunsaturated compound, monomer	A01-B03 A01-C+
Polyperfluoroalkyl acrylate	A04-E10D	Polysilazanes	A06-A+	Polyunsaturated compound, polymer	A04-A03 A04-B+
Polyperfluoroalkyl methacrylate	A04-E10D	Polysilicon layers on semiconductor circuits	L04-C10B	Polyurea	A05-J04
Polyphenol - see Phenol		Polysiloxanes (including polysilazanes)	A06-A+	adhesives	A12-A05F G03-B02E4
Polyphenyl acrylate	A04-F06+	applications	A06-A00E+	Polyurethane polyurea	A05-G+
Polyphenylene oxide-styrene polymer blends ("Alloys")	A04-C+ A05-H07A A07-A04E	applications, adhesives, coatings, textile treatment	A06-A00E1 A06-A00E2	Polyurethanes	A05-J04 A05-G+
Polyphenylene oxides/ethers	A05-H07A	applications, in engineering	A06-A00E3	applications	A05-G01E+
Polyphenylene sulphide	A05-J05A	applications, medical, dental, cosmetic, veterinary	A06-A00E4	applications, adhesives	A12-A05F G03-B02E4
Polyphosphate, inorganic - see Phosphorus compounds, inorganic		applications, photographic, printing, optical	A06-A00E4 A06-A00B	applications, artificial leather	A12-B02A F04-B01A
Polyphosphazene	A06-B	compounding	A06-A00C	applications, coatings	A05-G01E1 A12-B01K G02-A02H
Polyphthalocyanine	A05-J02	fabrication	A06-A00A		
Polypropylene	A04-G03+ B04-C03B C04-C03B	production	A06-A00D	compounding	A05-G01B
application	A04-G03E	treatment	A04-F04+	elastomers	A05-G+
application, for		Polysodium acrylate	A04-C02+	expanded, foamed	A12-S02+
packaging, medical,		Polystyrene	A04-C02E	fabrication	A05-G01C
home, photographic, film	A04-G03E1	applications		fibres, chemical features in	F01-D07
compounding	A04-G03B	chloromethylated and quaternised using	A10-E03 A10-E19	fibres, dyeing and printing	F03-F10
fabrication	A04-G03C	tertiary amine	A04-C02B A12-S01+	foams	A12-S02+
fibres			A04-C02C	in polymeric blends	A07-A+
fibres, chemical features of	F01-D05	compounding		monomeric polyol based	A05-G04
fibres, dyeing/printing	F03-F08	expanded, foams	A12-S01A	polyester polyol based	A05-G02
production	A04-G03A	fabrication	A04-C02A	polyether polyol based	A05-G03
treatment	A04-G03D	foam, composition or process	A04-C02D	production	A05-G01A
Polypropylene oxides/glycols	A05-H04+	production	A04-C02E	treatment	A05-G01D
Polypyromellitimides from pyromellitic condensant and diamines	A05-J01+	treatment	B10-A04 C10-A04 E10-A04	Polyvinyl acetal	A10-E02
Polypyrroles		Polysulphides, organic	A05-J05+ A05-J06	Polyvinyl acetate	A04-F08
polypyrroles	A05-J12	polymer	A05-J05+	Polyvinyl alcohol	A10-E09+
Polypyrrolidone	A05-F03	Polysulphone	A05-J06	fibres, chemical features	F01-D08
Polyquaternary ammonium compounds	B10-A21 C10-A21 E10-A21	Polysuphonamides	A05-F	fibres, dyeing/printing	F03-F11
Polyquinazalone	A05-J02	Polyterpenes	A03-C	production by hydrolysis	A10-E09
Polyquinoxaline	A05-J02	Polytetrafluoro-ethylene	A04-E08+	Polyvinyl bromide	A04-E04
		application to		Polyvinyl butyral	A10-E02
		engineering	A04-E08B	Polyvinyl butyrate	A04-F10
		compositions, production	A04-E08A	Polyvinyl carbazoles	A04-D06
		Polytetrahydrofuran	A05-H05	Polyvinyl chloride	A04-E02+
		Polytetrahydrofuran based polyurethane	A05-G03	applications	A04-E02E+
		Polythene see also Polyethylene	A04-G02+	applications, adhesives	A12-A05B3 G03-B02D2
		Polythiocarbonates	A05-E06+	applications, artificial leather	A12-B02A F04-B01B
		Polythiodiethanol	A05-H	applications, coatings	A12-B01F G02-A02D2
		Polythioethers	A05-J05+	applications, in engineering, building	A04-E02E1
		Polythiol-polyene resins	A05-J05		
		Polythiophenes	A05-J12		
		Polythiourea	A05-J04		

compounding	A04-E02B	organic	E05-A	Powders	
fabrication	A04-E02C		E05-A02	coating onto substrates	A11-B05E
fibres, chemical features	F01-D08	Potassium fluoride	E33-B	dusting	B12-M02E
fibres, dyeing/printing	F03-F11	Potassium halide	B05-A01A		C12-M02E
production	A04-E02A		C05-A01A	formation of polymer	A11-A04
treatment	A04-E02D		E33-B	metal production by	
Polyvinyl cinnamate	A10-E07B	Potassium hydroxide	E33-A	electrolysis	M28-D
	A10-E09+	electrolytic production	E33-A01	metal production by	
Polyvinyl cyclohexane	A04-G	production	E33-A02	other methods	M22-H01
Polyvinyl fluoride	A04-E10A	use	E33-A03	of polymers	A12-S09
Polyvinyl formal	A10-E02	Potassium iodide	E33-B	oral application	B12-M11G
Polyvinyl iodide	A04-E04	Potassium nitrate	E33-E		C12-M11G
Polyvinyl isobutyl ether	A04-F11	Potassium oxide	E33-A	polymeric coating process	A11-B05E
Polyvinyl ketal	A10-E02		E33-A04	Powdery mildew	C14-A06N
Polyvinyl pyridines	A04-D07	Potassium persulphate	E31-E03	Pozzuolanic cements	L02-C03
Polyvinyl stearate	A04-F10	catalyst for polymerisation	A02-A01	PP	A04-G03+
Polyvinylamine	A10-E09	crosslinker	A08-C05	PPAR agonist	B14-L01C
Polyvinylene carbonate	A04-F		A08-D		C14-L01C
Polyvinylidene bromide	A04-E06	redox catalyst for		PPAR antagonist	B14-L06C
Polyvinylidene chloride	A04-E06	polymerisation	A02-A03		C14-L06C
Polyvinylidene fluoride	A04-E10B	Potassium sulphates	E33-C	Praseodymium compounds	B05-A03B
Polyvinylidene iodide	A04-E06	Potassium sulphites	B05-A01A		C05-A03B
Polyvinylpyrrolidone	A04-D05A		C05-A01A	catalysts	N03-A02B
	B04-C03A		E33-C	inorganic	E34-E02B
	C04-C03A	Potassium titanate filler/ reinforcing agent	A08-R09	organic	E05-P
iodine complex	A10-E04A	Potentiometry testing	B11-C08B	Pre-spinning yarn process	F01-F
Polyxylylene	A05-J		C11-C08B	Prebiotics (health food)	D03-H01T2A
Pools, swimming	A12-F01A	Potted components (electrical, polymer use)	A12-E04	Probiotics (health food)	D03-H01T2A
Popcorn making	D03-J11	Potting compound (electrical)	A12-E04	Precious metal	
Porcelain	L02-G03A	Poultices	B12-M02C	conductor tracks for semiconductor devices	L04-C10E
Pore formers for polymers	A08-B+		C12-M02C	Precious metal catalysts	N02
Pore forming of polymers	A11-B06+		D09-C04A	Precipitating with shear to give fibres and fibrils	F01-C07
Pork	D02-A03B		D02-A01	Precipitation	
Porous		Poultry (whole), processing	D02-A03	of polymers, purification by	A10-G
forms	A12-S+	Poultry products	H07-G05	tests	B11-C07
metal by electrolysis	M28-D	Pour depressant (lubricant additive)	A12-W02A		C11-C07
Porphin dye (general)	E23	polymeric	H06-D05	water treatment	D04-A01B
Porphyrin	B06-D18	Pour point depressants (fuels)	M22-H	Prednisolone	B01-B02
	C06-D18	Powder metallurgy	M22-H03A		C01-B02
	E06-D18	compacting	M22-H03C	Prednisone	B01-B01
Portland		compacting and sintering	M22-H03F		C01-B01
cement	L02-C02	composite materials	M22-H03D	Prefabricated concrete	L02-D04
cement, polymer use in	A12-R01A	fibre reinforced material		compositions	L02-D04A
clinker in cement	L02-C03	impregnation or post		methods	L02-D04B
Positron emission tomography	B12-K04C3	treatment	M22-H03E	products	L02-D04D
	C12-K04C3	powder metal treatment	M22-H02	Preformed glass rod and sheath for optical fibre manufacture	L01-F03F4
Post halogenated polymer	A10-E04A	pressing	M22-H03A	Preforming of polymers	
Post-forming glass	L01-G	sintering	M22-H03B	Preforming, pelleting of polymers	A11-A04
fibres	L01-F03E	specific products	M22-H03G	Preforms for optical glass fibre	L01-F03F
Post-treatment of castings	M22-G03H	Powder coatings	G02-A07A	1,4-Pregnadiene (excluding prednisone and prednisolone)	B01-B03
Posters, advertising	A12-W03	Powder paints, of polymer	A12-B+		C01-B03
Posthalogenation	A10-E04A		A12-S09+	Pregnadiene (two ring "A" double bonds other than 1,4)	B01-B04
Potassium bicarbonate	E33-D		G02-A07A		C01-B04
Potassium bromide	E33-B	Powder treatment, of polymers	A11-A04	Pregnancy testing	B12-K04A6
Potassium carbonate	E33-D	Powdered filler, reinforcing agents for polymers	A08-R+		C12-K04A6
Potassium catalysts	N01-A01	Powdering detergents	D11-D03		
Potassium chloride	E33-B				
Potassium compounds	B05-A01A				
	C05-A01A				
inorganic	E33-S				

Pregnane (saturated ring "A")	B01-D01 C01-D01	copying material	A12-D05A G05-D	ink jet	G05-F03 A12-W07D1
Prehardening during colour processing	G06-G14	office materials	A12-D05A	ink jet inks	A12-W07D1
Preheating		Pressure Swing Adsorption	H02-B05	intaglio	G05-A03
furnace charge	J09-B03	Pressure vessel		lithographic	A12-W07B G05-A01
hot blast	M24-A05E1	discharge of gas from	J06-B04	others, produced	
polymers	A11-A02+	filling with gas	J06-B03	photographically	A12-W07C
Premenstrual tension treatment	B12-C05 B14-N14 C12-C05 C14-N14	for nuclear reactors	K05-B01	paste for polymers	A08-E01
		gas/liquid storage	J06-B01	pigment for printing ink	G02-A04B
		Prestressed concrete	L02-D05	planographic	G05-A01
		Pretreatment before digesting (in paper-making)	F05-A02A	plastics	A11-C04A
Preparation of catalysts, general	N06-E	Pretreatment of surfaces for application of adhesive	G03-B03	plates	A12-W07+ G05-A+
Prepolymers of polyurethanes	A05-G+	Prevention of scales on polymerisation vessels	A10-G02	polymeric, non-photographic	A12-W07A
Preservation of		Prills	B12-M11D C12-M11D	polymeric, photographic	
body parts (chemical)	D09-A01 D09-A03		K04-B01	composition for making plates	A12-L02B1
edible seeds	D03-A05	Primers (explosive)	K04-B01	production of plates by electrophotographic methods	A12-L02B1 G06-D05A A06-A00E4
eggs and egg products	D03-A03	Primers for coatings	G02-A05E	silicone resins used in stencil for	G05-A04
fish and fish products	D03-A02	Primers for polymers	A08-M01+	substrates	A12-W7F2
foods (general)	D03-H02	Printability improver for polymers	A08-M01A	thermal (heads)	G05-F02 L03-G10B
meat and sausages	D03-A01	Printability of polymers	A09-A06	transfer sheets	A12-W07F1 G05-F01
vegetables and fruit	D03-A04	Printed circuit boards			
wood	F05-B01	encapsulation by plastics or glass	A12-E04 A12-E07A L03-H04E8	Printing plastics	
Preservatives			L03-H04E9	Painting plastics	A11-C04A
agricultural/pharmaceutical	B12-M06 C12-M06	other treatment	A12-E07A	Printout materials for photo-sensitive system	G06-C06
biological, for fibres/fabrics for polymer	F03-C02B A08-M02	Printed circuits	L03-H04E	Prions	B04-N10 C04-N10
Preserved food product	D03-A		L03-H04E3	Prion disease treatment	B14-N16 C14-N16
Preserving		electroplating of manufacture,		Prion detection, testing and identification	D05-H06B
apparatus	B11-C06 C11-C06	photographically manufacture,	G06-D06	Probes (DNA) used in tests (process)	B11-C08E5 C11-C08E5
food (general)	D03-H02	reprographically	L03-H04E2	Probes (electrical-polymer use)	A12-E13
Press polishing of polymers	A11-C04	metallising	L03-H04E3	Process, general	B11 C11 E11 N06
Press section of papermaking machine	F05-A04C	microwelding	L03-H04E7	Processing agent or step (photographic)	G06-G+
Presses (forging, hammer and extrusion)	M21-J02	patterning processes	L03-H04E2	Processing aid for	
Pressing of		soldering, brazing	L03-H04E6	fabrics	F03-C05
ceramic powder, cold	L02-A03	substrate		polymers	A08-M03+
ceramic powder, hot while sintering	L02-A04	substrate, ceramic	L03-H04E5	Processing of polymers	
glass	L01-E04	substrate, plastics	L03-H04E1	forming processes	A11-B+
metal, powder	M22-H03A	Printing	A12-W07+	miscellaneous processes	A11-C+
metal, sheet, wire, rod, tube profile	M21-J	after treatment	F03-F14	preliminary processes	A11-A+
metal, sheet, wire, rod, tube profile, control devices	M21-J03	apparatus for auxiliaries	F03-F01 F03-F32	Prodegradant for polymers	A08-M08
metal, sheet, wire, rod, tube profile, equipment	M21-J02	auxiliaries for fibres	F03-F32	Proenzyme	B04-L01 C04-L01
metal, sheet, wire, rod, tube profile, processes	M21-J01	by photographic methods	A12-L02B1 G06-D05	Progestagen inhibitor	B12-G01A B14-D02A C12-G01A C14-D02A
polymers	A11-B13	deep relief	G05-A02		
Pressure		dyes for printing ink	A12-W07E G02-A04B		
casting	M22-G03E	equipment (excluding plates) made of polymers	A12-W07F		
filters	J01-F02A	fabrics	A12-S05Q		
swing adsorption	J01-E03D	gravure	G05-A03		
Pressure sensitive		ink	A12-W07D G02-A04A		
adhesive polymer	A12-A+	ink for polymer surfaces	A08-E+		

Progestational	B12-G04D	Propylene oxide	E07-A03A	Protective coatings		
	B14-D01C	(co)polymers	A05-H04		photographic	G06-A08
	C12-G04D	condensant	A01-E07		polymer use	A12-B+
	C14-D01C	Propylene oxide - TDI			Protective colloid (additive to polymer system)	A08-S06
Progesterone (excluding 17-hydroxy)	B01-C04	polyurethanes	A05-G03	Protective layers in		
	C01-C04	Propylene oxide-ethylene oxide copolymer based polyurethane	A05-G03		magnetic recording	L03-B05K1
Programs for sewing machines	F02-F01B1			photography	G06-A08	
Projectiles	K03-A02	Propylene urea condensant	A01-E03	Protein	B04-B04A	
lethal	K03-A02A	Propylene urea-formaldehyde resin	A05-B04			B04-N04
non-lethal	K03-A02B	Propylene- vinylchloride copolymer				C04-B04A
Prolactin	B04-J05				A04-E03+	
	C04-J05		A04-G09		D03-F	
Promethium compounds	B05-A04	Propylene-ethylene copolymer	A04-G06+	analysis	B11-C08F	
	C05-A04	Propylene-ethylene- diene copolymer				C11-C08F
catalysts	N03-A02B	Prostacyclin	A04-G06+	animal	J04-B03	
inorganic	E34-E02B		B04-H03D			B04-N02
organic	E05-R		C04-H03D			C04-N02
Promoters for		Prostaglandins	B04-B02E		biosynthesis	D05-C12
addition (co)polymers	A08-C02		B04-H03		D05-C13	
blowing agents	A08-B		C04-B02E	composition	D03-F06	
crosslinking agents for			C04-H03		from animal or fish waste	B04-B04A5
other (co)polymers	A08-D+	agonist/mimetic	B14-L04		C04-B04A5	
hair growth	D08-B03A		C14-L04		D03-F04	
Proofing, colour	G05-C	antagonist/inhibitor	B14-L08	from microorganisms	B04-N03	
1,3-Propane dicarboxylic condensant	A01-E12		C14-L08			C04-N03
Propane diol condensant	A01-E14	prostaglandin E1	B04-H03A		D03-F03	
Propane-1,2,3-triol condensant	A01-E14		C04-H03A	from petroleum source -		
Propargyl alcohol		prostaglandin E2	B04-H03B		see also Biosynthesis	H08-E03
(co)polymers	A04-A02		C04-H03B	from soya beans	D03-F02	
monomer	A01-B02	prostaglandin F2 alpha	B04-H03C	hydrolysate	B10-B02C	
Propellants (for projectiles)	A12-T03C		C04-H03C			C10-B02C
	K04-C	prostaglandin I2	B04-H03D		E10-B02C	
			C04-H03D	libraries	B11-C10C	
Propene (see also Propylene)	E10-J02C	Prostate disease treatment	B12-G03			C11-C10C
monomer	A01-D13		B12-G04	plant	B04-N01	
Properties of polymers	A09-A+		B14-N07A			C04-N01
absorbtion/adsorption	A09-A08		C12-G03	recovery	B04-B04A6	
biodegradeable	A09-A07		C12-G04			B04-N04
dyeability	A09-A06		C14-N07A		C04-B04A6	
electrical	A09-A03	Prostheses	A12-V02+		C04-N04	
electroluminescent	A09-A03A		D09-C01		D03-F01	
flammability	A09-A01		F04-E04	removal from waste water	D04-B04	
heat stability	A09-A01A		B12-M16		shaping (thread or film)	D03-F05
impact strength	A09-A05A		C12-M16	zinc finger protein	B04-N11	
liquid crystal	A09-A02A	Protactinium compounds	B05-A04			C04-N11
magnetic	A09-A04		C05-A04		D05-H17A7	
mechanical	A09-A05+	inorganic	E35-Y		D05-H17B7	
nematic	A09-A02A	organic	E05-Q	Proteinaceous		
optical	A09-A02+	Proteases	B04-L05C		artificial fibres, chemical	
other	A09-A		C04-L05C	features	F01-D10	
thermal	A09-A01A	agonists	B14-L01A3	polymers	A03-C01	
Propylene			C14-L01A3	Proteomics	B11-C08F+	
(co)polymers with ethylene	A04-G06	inhibitors	B14-D07C			C11-C08F+
(co)polymers with other			C14-D07C	Prothrombin	B04-B04D3	
monomers	A04-G09	Protective chemicals (agriculture)	A12-W04C			B04-H19
homopolymer	A04-G03	Protective clothing	A12-C02		C04-B04D3	
monomer	A01-D13		D09-C04D	Proton pump inhibitors	C04-H19	
Propylene glycol condensant	A01-E13		F04-C06			B14-L12
		against radiation	K07-A			C14-L12



Protozoa	B04-F06 C04-F06	by chemical means by physical means catalytic	E11-Q01A E11-Q01B N07-L01 N07-L02	Pyrazolo(2,3-a)-pyridine	B06-D05 C06-D05 E06-D05
Protsta				Pyrazolo(2,3-b)-pyridazine	B06-D08 C06-D08 E06-D08
prostaglandin	C04-K01H				
PS	A04-C02	of drying oil	G02-B03		
Pseudomonas	B04-F10A6 C04-F10A6	of gas of natural resin	H09-D G02-B01	Pyrazolo(3,4-b)-pyrazine	B06-D09 C06-D09 E06-D09
Psoriasis treatment	B12-A07 B14-N17C C12-A07 C14-N17C	of polymer of water by electrodialysis	A10-G01+ D04-A01E		
Psychosthenic	C12-C05	Purine	B06-D09 C06-D09 E06-D09	Pyrazolo-pyridazine (four N-atoms)	B06-D09 C06-D09 E06-D09
Psychotropic	B12-C05 B14-J01 C12-C05 C14-J01	Purses, polymer use Putty	A12-T A12-R08 G04-B02	Pyrazolo-pyridine (three N-atoms)	B06-D08 C06-D08 E06-D08
Pteridine	B06-D09 C06-D09 E06-D09	PVA fibres, chemical features fibres, dyeing/printing	A10-E09+ F01-D08 F03-F11	Pyrazolo-pyrimidine (four N-atoms)	B06-D09 C06-D09 E06-D09
Pteridophytes	B04-A08B C04-A08B	PVAC PVC fibres, chemical features fibres, dyeing/printing	A04-F08 A04-E02+ F01-D08 F03-F11	Pyrazolo-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
PTFE	A04-E08+	PVC/ABS blend ("Alloy")	A04-C03		
PU	A05-G+		A04-E02B	Pyrazolone photographic coupler	G06-H08B
Pullulan	A03-A+ B04-C02F C04-C02F D06-H	PVDC PVDF	A07-A02A1 A04-E10B	Pyrazolotriazole based photographic couplers	G06-H08D
Pulmonary	B12-K06 B14-K01 C12-K06 C14-K01	PVF PVP Pyran (excluding tetrahydropyran)	A04-E10A A04-D05A B07-A03 C07-A03 E07-A03C	Pyrethrin	B04-A07C C04-A07C
Pulp after-treatment in papermaking	F05-A02B			Pyridazine	B07-D10 C07-D10 E07-D10
Pulp liquor regeneration, in papermaking	F05-A02C	Pyrazine (excluding piperazine)	B07-D10 C07-D10 E07-D10	Pyridine (excluding piperidine)	B07-D04 C07-D04 E07-D04
Pulping fruit	D03-J06			Pyridines, vinyl (co)polymers monomer	A04-D07 A01-D01
Pulping, in papermaking	F05-A02A	Pyrazino(1,2-b)-pyridazine	B06-D08 C06-D08 E06-D08	Pyridinium	B07-D04A C07-D04A E07-D04A
Pulsed release	B12-M10D C12-M10D			Pyrido-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
Pultrusion process for FRP production (excluding A11-B09A+)	A11-B09C	Pyrazino(2,3-d)-pyrimidine	B06-D09 C06-D09 E06-D09		
Pulverisation of polymers	A11-A04	Pyrazino-pyridazine (four N-atoms)	B06-D09 C06-D09 E06-D09	Pyrido-pyrimidine (two N-atoms)	B06-D06 C06-D06 E06-D06
Pulverising process	J02-B			Pyridoxine	B03-D C03-D
Pumps for production of oil	H01-D03	Pyrazole	B07-D08 C07-D08 E07-D08	Pyrimidine	B07-D12 C07-D12 E07-D12
Pumps, polymer use in	A12-H			Pyrimido-pyrimidine (four N-atoms)	B06-D09 C06-D09 E06-D09
Punch cards for knitting systems weaving system	F02-B01 F02-A02	Pyrazino-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08		
Punching fabric (non woven) polymers sheet metal	F02-C02D A11-A05A M21-E02				
Purgative	B12-J07 B14-E09 C12-J07 C14-E09	Pyrazolo(1,2-a)-pyridazine	B06-D05 C06-D05 E06-D05		
Purging of polymer systems	A10-G+ A11-A+	Pyrazolo(2,3-a)-pyrazine	B06-D08 C06-D08 E06-D08		
Purification (process)	B11-B C11-B E11-Q01			Pyrimido-pyrimidine (three N-atoms)	



Pyroelectric materials	L03-G09C
Pyroligneous acid	B04-A07D1 B04-A09J C04-A07D1 C04-A09J
Pyrolysed polymer	A10-E05+
Pyrolysis (of)	A10-E05+
polymer waste	A10-E05A A11-C07
sludge (water treatment)	D04-B10B
Pyromellitic acid condensant	A01-E11
Pyrophoric composition	K04-B02
Pyroxylin	A03-A03 B04-C02A C04-C02A
Pyrrole (excluding pyrrolidine)	B07-D02 C07-D02 E07-D02
Pyrrole polymer	A05-J12
Pyrrolidine	B07-D03 C07-D03 E07-D03
Pyrrolidones, vinyl	
(co)polymers	A04-D05A
monomer	A01-D01
Pyrrolizine	B06-D04 C06-D04 E06-D04
Pyrrolo-pyrimidine (three N-atoms)	B06-D08 C06-D08 E06-D08
Pyrrolo-pyrimidine (two N-atoms)	B06-D05 C06-D05 E06-D05
Pyrilium spectral sensitiser, photographic	G06-H07D

## Q

Quartz filler	E31-P G01-A06 A08-R06A
for polymers	
Quaternary ammonium catalysts	N05-D
compounds	
Quaternary ammonium compounds	
disinfectants	D09-A01B
heterocyclic detergents	D11-A02A
monoquaternary	B10-A22 C10-A22 E10-A22
non-heterocyclic detergents	D11-A02B
polyquaternary	B10-A21 C10-A21 E10-A21
Quenching	
baths for ferrous metals	M24-D04E
following extrusion of	
polymers	A11-B07D
petroleum refining	H05-M
spun fibres	F01-C
Quilting textiles	F03-H
Quinazoline	B06-D06 C06-D06 E06-D06
Quinidine	B04-A02 C04-A02
Quinine	B04-A02 C04-A02
Quinol condensant	A01-E13
Quinoline	B06-D02 C06-D02 E06-D02
Quinolizine	B06-D04 C06-D04 E06-D04
Quinomycin	B02-Q C02-Q
Quinone	B10-A06 C10-A06 E10-A06 E10-A06A B10-A06 C10-A06 E10-A06 E10-A06B
derivatives	B06-D06 C06-D06 E06-D06
Quinoxaline	B06-D04 C06-D04 E06-D04
Quinuclidine	

## R

Racemase	B04-L07 C04-L07
Racemates	
separation by	J01-X02
Racemisation process	B11-C01 C11-C01 E11-J02
Racquets	A12-F01B
Radiation	
measurement	K08-A
photographic exposure to	G06-G18
protection against	K07-A
sensitive resists	A12-L02+
Radiation sensitive system (element in system)	G06-F+
diazo element	G06-F02
heat sensitive	G06-F08
inorganic photoconductor, other than selenium or	
zinc oxide	G06-F07
inorganic photoconductor, selenium (alloy) or zinc oxide	G06-F07A
light-sensitive dye	G06-F05
non-silver metal or compound	G06-F04
organic photoconductor (including electro-photographic)	A12-L02+ G06-F06
photosensitive polymer	G06-F03+
photosensitive polymer, containing additives e.g.	
photosensitisers	G06-F03D
photosensitive polymer, containing monomer	G06-F03B
photosensitive polymer, polymer containing	
composition	G06-F03C
photosensitive polymer, polymeric photoconductors	A12-L05B G06-F03A
silver halide	G06-F01+
silver halide core-shell emulsion	G06-F01B
silver halide tabular grains emulsion	G06-F01A
silver salt (other than halide)	G06-F
Radio frequency welding of polymers	A11-C01+
Radioactive	
decontamination	K07-A03
decontamination of water	D04-B07
metal elimination from body	B12-J05 B14-M01 C12-J05 C14-M01

tracer bound to antigen or antibody	B11-C07A3 C11-C07A3	production	M25-G21	other components	K05-B07G
tracer test	B11-C07B5 C11-C07B5	Rare earth metal compounds	B05-A03B C05-A03B	pipes	K05-B07E
well logging	H01-A02B	inorganic	E34-E	pressure vessel	K05-B01
Radioactive compounds - see also specific element	B05-A04+ C05-A04+	inorganic compound		process	K05-A
organic	E05-Q E05-R	pigments	G01-A15	pumps	K05-B07F
Radioactive element (non-metal)	B05-A04+ C05-A04+ E05-R E31	organic	E05-P	servicing	K05-B07D
Radioactive fall-out shelters	K07-A02B	Rare earth oxides	L02-G01C	shielding	K05-B02
Radioactive waste treatment	K07-B	production	L02-G12D	shut down	K05-B06A1
concentration	K07-B01	Rare gas	B05-B02C C05-B02C	thermal	K05-A02
encapsulation	K07-B01	compounds, inorganic	E31-J	thermal, gas-cooled	K05-A02A
encapsulation, in glass	L01-F	compounds, organic	E05-K	thermal, liquid	
gas treatment	K07-B02	Rare gas catalysts	N04-A	metal-cooled	K05-A02C
long-term storage	K07-B01A	Rauwolfia alkaloid	B04-A05 C04-A05	thermal, water-cooled	K05-A02B
polymer use in	A12-W11C	Raw material, mechanical treatment in papermaking	F05-A01	waste removal	K05-B07C
solidification	K07-B01	Rayon	A03-A05+	Reagent, analytical	J04-B01B
Radiochemistry	K09-E	chemical features	F01-D06	Receivers and housings, telephones	A12-E12
Radioprotectant	B14-M02B C14-M02B	dyeing/printing of	F03-F09	Receiving agent (photographic)	G06-A04
Radios	A12-E12	Razor blades	A12-V04	Receptors	
Radiotherapy	B14-S26 C14-S26	Reaction apparatus		adrenergic (alpha and/or beta)	B04-K01B C04-K01B
Radium catalysts	N03-A03	Cyclization reaction	E11-A01	androgen	B04-K01L1E C04-K01L1E
Radium compounds	B05-A04 C05-A04	Decyclization (ring opening) reaction	E11-A02	angiotensin	B04-K01N C04-K01N
inorganic	E34-E03	Ring opening (decyclization) reaction	E11-A02	antibody	B04-K01W C04-K01W
organic	E05-Q	Reaction injection moulding	A11-B12+ J04-B01B	bacterial/bacterial antigen	B04-K01T C04-K01T
Radomes	A12-E	Reactions (analytical)		blood cell/blood cell antigen	B04-K01R C04-K01R
Radon (element)	B05-A04 C05-A04 E31-J	Reactions, in chemical modification of polymers	A10-E+ A08-P+	cancer cell/cancer cell antigen	B04-K01S C04-K01S
Radon compounds	B05-A04 C05-A04 E31-J	Reactive diluents for polymers		cholinergic	B04-K01A
inorganic	E31-J	Reactive dyes see also under type or dye in (E02) i.e Azo, Anthraquinone, Phthalocyanine		corticosteroid	B04-K01L3 C04-K01L3
organic	E05-Q	for dyeing/printing fibre	F03-F19	dopamine	B04-K01C C04-K01C
Rain proofing of fabric non-resinous	A12-S05R F03-C02A	Reactor, nuclear	K05-A K05-B	Estrogen	B04-K01L2 C04-K01L2
resinous	A12-G03 F03-C02A	accessory	K05-B	general and other	B04-K01 C04-K01
Rainwater goods	A12-R02	cables	K05-B07E	growth factor	B04-K01J C04-K01J
Raising fabrics	F03-A	chemical production of fuel component	K05-B04A K05-B	histamine (H1, H2)	B04-K01F C04-K01F
Raney catalyst	N06-C01	control	K05-B06	insulin	B04-K01M C04-K01M
for polymerisation	A02-A06	coolant	K05-B03	interleukin	B04-K01G C04-K01G
Rapid release	B12-M10C C12-M10C	coolant flow control	K05-B06B	leukotriene	B04-K01H C04-K01H
Rapier weaving/loom	F02-A04B	defective fuel location	K05-B06C	lipoprotein (HDL, LDL)	B04-K01H C04-K01H
Rare earth catalysts	N03-A	fast fission	K05-A01	melanin concentrating hormone	B04-K01Y1 C04-K01Y1
Rare earth metal alloys - for magnetic purposes	L03-B02A5	fuel	K05-B04		
in glass composition	L01-A02	fuel element construction	K05-B04B		
		fuel rod handling	K05-B07A		
		fusion	K05-A03		
		inspection apparatus	K05-B07J		
		liquid metal coolants	K05-B03A		
		maintenance	K05-B07D		
		measurements, other	K05-B06D		
		moderator	K05-B05		
		moderator, deuterium, heavy water	K05-B05A		
		neutron flux control	K05-B06A		

non-steroidal nuclear hormone	B04-K01X C04-K01X	nuclear fuel	K06-C	diatomaceous	L02-E02
other cell/microbe/antigen	B04-K01V C04-K01V	polymer scrap	A11-C03+	drying	L02-A03
other hormone receptor	B04-K01P C04-K01P	solvent vapour from gases	J01-E01	efireclay	L02-E02
other modifier of cell function and growth	B04-K01K C04-K01K	waste textile materials	F03-E	firing	L02-A04
other steroid	B04-K01L4 C04-K01L4	Recovery process, general	B11-B C11-B E11-Q	flame (plasma) spraying	L02-A06
parasympathetic	B04-K01A C04-K01A	Recrystallisation of polymers during purification	A10-G01+	for glass furnaces	L01-C
peroxisome proliferator activated	B04-K01X1 C04-K01X1	Rectification of polymers	A10-G01+	glazing	L02-A07
sympathetic	B04-K01B C04-K01B	Rectifiers		gunnable	L02-E05
thromboxane	B04-K01H C04-K01H	diodes	L04-E02	melting	L02-A05
thyroid	B04-K01X2 C04-K01X2	Recycling of fabric products	F03-E02	mouldable	L02-E05
viral/viral antigen	B04-K01U C04-K01U	Recycling of electr(on)ic materials	L03-J01	neutral	L02-E09
Reclaiming		Recycling of glass	L01-B02	polymer use in	A12-W12G
mould material	M22-B02	Recycling of polymers	A11-C03+	preparation of materials	L02-B
polymers	A11-C03+	Recycling of waste	J09-C01A	production (methods and equipment)	L02-A
Recombinant cells		Recycling of waste water (apparatus)	D04-A06	raw material preparation	
Antibody-producing cells	D05-H14	Red phosphorus flame retardant	A08-F03	equipment	L02-A02
bacteria	D05-H14A1	Red sensitive (electro)photographic layer	G06-C14A	shaping	L02-A03
fungi	D05-H14A2	Redox catalysts for polymerisation	A02-A03	testing	L02-A08
insect cells	D05-H14B1	Reduced polymer	A10-E13	Refractories, ceramics, cements general	L02
Mammalian cells	D05-H14B2	Reducers, permeability (polymer use in mining, oilwells)	A12-W10C	Refractory	
Microbial (specified) other than D05-H14A1 and -H14A2	D05-H14A3	Reductase agonists	B14-L01A1 C14-L01A1	cement or concrete	L02-E05
microbial (unspecified)	D05-H14A	Reductase inhibitors	B14-D05D C14-D05D	coating of metal	M13-H04
plant cells	D05-H14B3	Reductases	B04-L03D C04-L03D	composition, polymer use (excluding core moulds)	A12-W12G
Recombinant cell lines	D05-H14B	Reduction process	B11-C01 C11-C01 E11-D	metal alloy	M26-B13
Recombinant cell lines (specified) other than D05-H14B1, -H14B2 and -H14B3	D05-H14B4	for polymers	A10-E13	Refrigerants	G04-B01+
Recombinant protein production	D05-H17	Reed switches	L03-B04A	halogen containing	G04-B01A
fusion protein	D05-H17C	Reeling yarns	F01-H03+	containing fluorine as the only halogen	G04-B01A1
mutant protein	D05-H17B	Refinery products by cracking	A01-B04	containing both fluorine and	
wild-type protein	D05-H17A	Refining non-ferrous metals, carbonyl reduction	M25-D	chlorine	G04-B01A2
Reconstituted tobacco	D07-D	Reflowing of electrodeposited metal	M11-B03	fluoroether refrigerants	G04-B01A3
Recording		Reforming catalysts	H04-F02C	hydrocarbon refrigerants	G04-B01B
devices, magnetic	A12-E08A+	Reforming process	B11-C C11-C E11-H H04-C	CO <sub>2</sub> as a refrigerant	G04-B01C
direct electron	G06-D03	Refractive index of polymers	A09-A02	other specific chemicals as refrigerants	G04-B01E
magnetic tape	A12-E08A1	Refractories		refrigerant compositions or blends	
Records, gramophone	A12-W01	acidic	L02-E03	refrigerants	G04-B01F
Recovery of		amphoteric	L02-E09	Refrigeration	J07-A J07-C
biological substances and materials	B11-B C11-B D05-H13	basic	L02-E04	lubricants	J07-A09 H08-D11
catalysts	N06-E	carbon or carbon-containing	L02-E07	media	J07-A08
		cast	L02-E08	of foodstuffs	D03-H02
		castable	L02-E05	Refrigerators	A12-D04
		casting	L02-A05	Regenerated cellulose	A03-A05+ B04-C02A1 C04-C02A1
		core material	L02-E06		
		decorating	L02-A07	Regenerated cellulose fibres	
				chemical feature in	
				production	A03-A05A F01-D06
				dyeing/printing	F03-F09
				solvent dyeing	F03-F13A
				Regeneration of pulp liquors in papermaking	F05-A02C
				Regulation sequences	D05-H12D5
				transcription	D05-H12D5
				translation	D05-H12D5

Regulation, heat treatment (ferrous)	M24-D07	against animals other than insects	B14-B13	Resistance	
Regulators for polymerisation	A02-B		C14-B13	methods	M23-D02A
Reheating furnaces for metal	M21-N04	against insects	B12-L06	Resistance welding	M23-D02
Reinforced			B14-B05	apparatus	M23-D02B2
concrete	L02-D05		C12-L06	butt	M23-D02A1
plastics	A12-S08+		C14-B05	circuits	M23-D02B1
plastics, glass fibre	A12-S08B		D09-E02	other	M23-D02A4
plastics, hoses, tubes, pipes	A12-H02B	against mammals including rodents	B12-N06	seam	M23-D02A2
plastics, laminates	A12-S08A		C12-N06	specifically adapted for particular work	M23-D02A5
plastics, lay up of	A11-B09+	for fabrics	F03-C02+	spot	M23-D02A3
plastics, panels, sheets	A12-S08A	Reperfusion treatment	B14-F05	Resistive oxide compositions including ceramic oxide	L02-G07D
plastics, phenol-formaldehyde resin in	A05-C03A		C14-F05	Resistivity of polymers	A09-A03
plastics, phenolic resin in	A05-C01B1	Reporter gene	B04-E12	Resistors (electrical)	A12-E07C
plastics, thermoplastics	A12-S08E		C04-E12		L03-B
plastics, uses	A12-S08D+	Repressuring (oil production)	H01-D07	fixed	L03-B01B
Reinforcing agents for polymers	A08-R+	Reprographic method for printed circuit production	A12-E07A	gas sensitive	L03-B01A4
Relaxing of fibres	F01-H05		A12-L02B2	moisture sensitive	L03-B01A3
Relays	L03-B04		G06-D06	semiconductor	L04-C12G
contact breakers	L03-B04B		L03-H04E2	thick film	L03-B01C
Release coating compositions	G02-A05D	Reserpine	B04-A05	variable	L03-B01A
Release layer, photographic	G06-A05		C04-A05	Resists	A12-L02+
Releasing photographically active components on processing excluding dyes	G06-C15	Reservoir device	B12-M10A2	photo (excluding printing plates etc.)	G06-D04
Removal of			C12-M10A2	photosensitive printing	G05-B
catalyst from polymer	A10-G01A	Residues in pulping, uses	F05-A02C	semiconductor processing	G06-D06
chemicals	E11-R	Residuum (petroleum)	H08-C		L04-C06B
Halohydrocarbons	D04-B06E	Resin concrete	A12-R01A	Resols	A05-C+
impurities from water	D04-B		L02-D07B	Resolution processes	B11-B
monomer from polymer	A10-G01A	Resin system development, photographic	G06-G17		C11-B
non-cellulosics in paper-making	F05-A02+	Resins (general)	B04-C03	Resorcinol	E10-E02A
of inorganic contaminants	J01-X01B		C04-C03		E10-E02D5
of organic contaminants	J01-X01C	addition in paper manufacture	A12-W06+	condensant	A01-E13
scale on polymerisation			F05-A06C	phenoplast derived from	A05-C02
vessels	A10-G02	addition type, general	A04-H00H	Resorcinol-formaldehyde resin	A05-C02
workpiece from sewing machine	F02-F01B2	condensation type, general	A05-K00K	Respirators, polymer use	A12-V03B
Removers, chemical, for ink and paint	G02-A03C	encapsulation of		Respiratory active	B12-K06
Renewable energy devices	A12-W16	semiconductors	A12-E04		B14-K01
Renin inhibitor	B12-F05A		A12-E07C		C12-K06
	B12-G01	natural	L04-C20A	Restenosis treatment	C14-K01
	C12-F05A		A03-C02		B14-F01G
	C12-G01		B04-C03D		C14-F01G
general or unspecified	B14-D07C		C04-C03D	Restrainers for photographic development	G06-H13
	C14-D07C	petroleum	G02-B01	Retardant for adsorption properties of fabric	
used as hypotensive	B14-F02B1	reinforced with specifically designed fabric	A03-C04	Retardant for adsorption properties of fabric	F03-C02+
	C14-F02B1	Resist coating apparatus for semiconductor manufacture	F03-D04	Retarders for concrete set	L02-D14A
Repair of polymer articles	A11-C		G06-D06	Retarders for crosslinking of addition (co)polymers	A08-C06
Repellence agent for polymer	A08-S08		G06-E04	of other polymers	A08-D+
Repellents			L04-D08	Retarding water penetration in concrete	L02-D14Q
additive for polymers against animals, insects, etc.	A08-M02	Resist dyeing/printing of fibres or fabrics	F03-F28	Retinol	B03-A
additive for polymers against oils or water	A08-S08	Resist materials in semiconductor processing	G06-D06		C03-A
against animals	B14-B13		L04-C05	Retreading of tyres	A12-T01D
	C14-B13			Retrovirus	B04-F11B1
					C04-F11B1

Retting to obtain vegetable fibres	F01-B02	Rice blast treatment	B12-A02 C12-A02	Rodenticide	B12-N05 B14-B09 C12-N05 C14-B09
Reuse of		Rickettsia	B04-B02B1 B04-F10A7	Rods, fishing	A12-F01
Marine production platform components	H01-B01E		C04-B02B1 C04-F10A7	Rods, welding	M23-F
old tyres	A12-T01D	Rifamycin	B02-R C02-R	Roll bonding metals	M13-H01 M23-E01
polymers	A11-C03			Rollers (polymer use)	A12-H11
Reversal processing	G06-G16	Rigid-pack	A12-P06B	Rollers for rolling mills, manufacture of	M21-A02A
Reverse osmosis	A12-W11A J01-C03A	RIM	A11-B12+	Rollers, mixing of polymers on	A11-A03+
water treatment, apparatus	D04-A01E	Ring expansion/contraction process	B11-C C11-C E11-B01	Rolling	
water treatment, membrane	A12-W11A D04-A01D			glass	L01-D02
water treatment, waste	D04-B10	Ring formed during modification of polymers	A10-E14	lubricants	H08-D07 M21-A06
Reverse transcriptase	B04-L04B C04-L04B	Ring opening		metal stock	M21-A
agonists	B14-L01A2 C14-L01A2	decyclization apparatus	E11-A02	webs of fabric	F03-K01
inhibitors	B14-D06B C14-D06B	decyclization process	E11-A02	Rolling mills	M21-A
		polycondensation	A10-D03	coilers	M21-A05
Rhenium catalysts	N02-E02 N03-E	Ring spinning	F01-G01	components	M21-A02
for polymerisation	A02-A06+	Ring-closure polycondensation	A10-D03	control mechanisms and processes	M21-A07
Rhenium compounds	B05-A03B C05-A03B	Ringless spinning	F01-G02	cooling beds	M21-A05
inorganic	E35-T	Rings, 'O' or piston (polymer use)	A12-H08	feeding devices	M21-A04
organic	E05-N E05-N03A	Risers; drilling	H01-B03C6	sheet mills	M21-A03B
Rheumatoid-arthritis treatment	B12-D03 B14-C09B C12-D03 C14-C09B	Riveting of metal sheets, wires, rods, tubes or profiles	M21-J A11-C01+	stands	M21-A02
		polymer material	A11-C01+	strip, bar and wire mills	M21-A03A
Rhizogenes	B12-P08 C12-P08 C14-U01D	Rivets (polymer use)	A12-H12	take-off devices	M21-A05
		RNA general	B04-E01 C04-E01	tube and pipe mills	M21-A03
Rhodium		RNA interference	B14-S03C C14-S03C	Rolls - see Rollers	
alloys	M26-B01	Micro RNA	B04-E07D C04-E07D D05-H12D8B	Roof	
electrodeposition	M11-A05			felt	F04-B02
production	M25-G20	Short interfering RNA	B04-E07C C04-E07C D05-H12D8A	lighting	A12-R04
Rhodium catalysts	N02-E			Roofing (polymer use)	A12-R05
for polymerisation	A02-A06+	Road		Rooting compound	C12-P08
Rhodium compounds	B05-A03B C05-A03B	paints	A12-R G02-A05F	Rooting compounds	B12-P08 C14-U01D
inorganic	E35-X	signs	A12-R	Roots	B04-A09D C04-A09D
organic	E05-M E05-M02B	surfacing compositions	A12-R09 L02-D09 D03-D01D	extracts	B04-A10F C04-A10F
Ribbed tube production	M21-C	Roasting coffee		Ropes	A12-P07 F04-A
Ribbons	A12-S06+ F02-E02	Roasting, briquetting and sintering		Rosin	A03-C02 B04-C03 C04-C03
(polymer form)	A12-P07	ferrous ore	M24-A01A	maleinised	A10-E03 A10-E23
typewriter	A12-D05A F02-E02	non-ferrous ore	M25-A02	Rot-proofing of fabrics	
		Robotics, polymer processing by	A09-D	non-resinous	A12-S05R F03-C02B
Riboflavin	B03-C C03-C	Rocket fuel	A12-T03C K04-C01	resinous	A12-G F03-C02B
Ribozyme	B04-E07A C04-E07A D05-H12D4	Rockets (polymer use)	A12-T03	Rotary	
		Rod formation (glass)	L01-F02	drying	J08-G05
Rice	D03-L	Rodent repellent	B12-N06 B14-B13 C12-N06 C14-B13	furnace	J09-A03 L02-A02
Crackers	D01-B02C			mixer	J02-A02B
products	D03-L				

Rotary drilling	H01-B03
derricks	H01-B03A1
drill bits	H01-B03C1
drill collars	H01-B03C2
drill pipe	H01-B03C3
hoists	H01-B03A3
kelly	H01-B03C4
mud processing	H01-B03A2
rig floor equipment	H01-B03A
rotating equipment	H01-B03A3
valves/control equipment	H01-B03B3
drilling riser	H01-B03C6
Rotational moulding of polymers	A11-B04A
Rotenone	B04-A07B
	C04-A07B
Rouges, abrasive	L02-F02
Rubber (natural)	A03-B
	B04-C03D
	C04-C03D
Rubber bands	A12-P07
Rubber latexes	A07-B01
Rubber vulcanisation	A11-C02A
Rubefacient	B12-L02
	B14-R01
	C12-L02
	C14-R01
Rubidium catalysts	N01-A
Rubidium compounds	B05-A01B
	C05-A01B
inorganic	E33-H
organic	E05-A
	E05-A02
Rugs	A12-D02
	F04-D04
Runways	
compositions	A12-R09
signs	A12-R
Rupturable container for photographic reagent	G06-E03
Rust preventing paints	A12-B04+
	G02-A05E
	C14-A06R
Rusts treatment	
Ruthenium	
alloys	M26-B01
production	M25-G20
Ruthenium catalysts	N02-E
	N02-E01
for polymerisation	A02-A06+
Ruthenium compounds	B05-A03B
	C05-A03B
inorganic	E35-X
organic	E05-M
	E05-M02A
Rutile	A08-E02
	E35-K
pigment filler	G01-A08

## S

Saccharomyces	B04-F09C
	C04-F09C
Sachets	A12-P06C
Sacks	A12-P02
Safety	
airbags	F04-E03A
belts, fabric	F04-E03B
belts, transport	A12-T04E
clothing	A12-C02
	F04-C06
	M21-N03
devices for metal working	
devices for polymer processing	A09-D+
devices, transport	A12-T04E
gloves	A12-C02A
helmets	A12-C02B
Sail boards	A12-F01
Salicylate therapy	
daliclyate therapy	C12-D09
Saliva pumps	D08-A04
Salmonella	B04-F10A8
	C04-F10A8
Salt (common)-(NaCl)	B05-A01B
	C05-A01B
	E33-B
Salt baths, heat treatment of iron and steel	M24-D02C
Salt, metal, formation during chemical modification of polymers	A10-E21+
	A10-E22+
Samarium compounds	B05-A03B
	C05-A03B
catalysts	N03-A01
inorganic	E34-E02B
organic	E05-P
Sampling	J04-C01
devices for testing	B11-C08C
	C11-C08C
SAN	A04-C04B
	A04-D03
Sand casting (see also foundry moulding)	M22-A
Sand filler for polymers	A08-R06A
Sandpaper	A12-A03
	G04-B04
Sanitary	
napkins, towels	A12-V03A
	D09-C02
	F04-E04
other products	D09-C02B
ware	A12-R02
Sap (plant) produced by pressing	B04-A07D4
	B04-A09H
	C04-A07D4
	C04-A09H

Saponified ethylene-vinyl acetate	A10-E09+
Saponified/ saponification of polymers	A10-E09+
Saponin (structure unknown)	B04-A07E
	C04-A07E
Sarkomycin	B02-S
	C02-S
Sauce	D03-H01H
Sausages	D02-A03C
	D02-A03D
Sawdust	B04-A07D3
	B04-A09G
	C04-A07D3
	C04-A09G
filler/reinforcing agent for polymers	A08-R07
Sawing of plastics	A11-A05+
SBR	A04-B03+
Scale inhibition	
additives for polymers	A08-S08
in polymerisation vessels	A10-C02
in water systems	D04-A03A
use of polymers in	A12-W11J
Scale removing see Scale inhibition	
Scandium catalysts	N03-A01
Scandium compounds	B05-A03B
	C05-A03B
inorganic	E34-E01
organic	E05-L03
	E05-L03A
Scar treatment	B14-N17F
	C14-N17F
	M23-C
Scarfig (flame)	
Scent - see Perfumes	
Schistosomes	B04-B02B
	B04-P01
	C04-B02B
	C04-P01
Schistosomicide	B12-B06
	B14-B03B
	C12-B06
	C14-B03B
Schizophrenia treatment	B14-J01B3
	C14-J01B3
Schottky contacts manufacture in semiconductor processing	L04-C11B
Scopolamine	B04-A01
	C04-A01
Scouring composition	G04-B08
production	D11-D04
Scouring of fabrics	F03-B
Scrap recovery	
non-ferrous metal extraction	M25-E
polymers	A11-C03+
tyres	A12-T01D
Scrap treatment for iron and steel production	M24-A07A
Scrapie treatment	B14-N16D
	C14-N16D

Scratch resistant coating/ layer, photographic	G06-A08	Sebacic acid	E10-C02D E10-C02D2	Selenide ceramics	L02-H05
Screening		condensant	A01-E12	Selenium (alloy or compound)	
electromagnetic	A12-E01A	Seborrhea treatment	B12-L05	photoconductor	G06-F07A
high content	B11-C10B C11-C10B		B14-R02	Selenium catalysts	N04-A
Screening, photographic			C12-L05 C14-R02	Selenium compounds	
dyes	G06-A02	Secondary growth inhibitor (plants)	C12-P09	inorganic	B05-B02C C05-B02C E31-G
techniques	G06-E01	Secondary growth inhibitors (plants)	B12-P09 C14-U01E	organic	B05-B01D C05-B01D E05-K
Screens (coarse filters) for		Secretin	B04-J12 C04-J12	Selenium element	B05-B02C C05-B02C E31-G
paper-making pulp	F05-A03	Security documents with magnetic recording	L03-B05H	Self-bonded	
solids	J01-K04	Sedative	B12-C08 B14-J01B2 C12-C08 C14-J01B2	Self-bonded non-woven fabrics	F02-C01B1
well equipment	H01-C07			Self-extinguishing property of polymers	A09-A01
Screens for discharge tubes	L03-C	Sedimentation of		Semen	B04-B02D B04-F03 C04-B02D C04-F03
fluorescent compositions	L03-C02B	particles in liquids	J01-F01	Semi-finished materials of polymers	A12-S+
production	L03-C04A	solids for differential separation	J01-K03	Semi-liquid application to surfaces	J02-C02
Screws		waste water or sewage	D04-A01B D04-A01L D04-B09	Semi-liquid freezing	J07-B
for extrusion	A11-B07+			Semi-permeable membrane	A12-W11A J01-C03
for mixing of polymer		Sedimentation separation in test	B11-C08D C11-C08D	gas separation use	J01-E03E
forms	A11-A03+	Seeding agent for polymerisation	A02-D	waste gas treatment use	J01-E02C
made of plastic	A12-H12	Seeds	B04-A07D2 B04-A09F C04-A07D2 C04-A09F	Semi-solid lubricant	H07-D
Scutching fibres	F01-A02	coatings on	A12-B09	Semicarbazone	B10-A13D C10-A13D E10-A13B E10-A13B1 E10-A13B2
Sea farming	A12-W04+	coatings on, agricultural	A12-W04B	Semiconductive	
Sea water desalination	D04-A D04-B07F	edible, preservation of	D03-A05	oxide compositions	L02-G07D
Sea-island fibres	A12-S05B F01-E01	extracts	B04-A10G C04-A10G	silicon	L04-A01
Sealants	A12-R08 G04-B02	germination inhibitor	B12-P09 C12-P09 C14-U01E	Semiconductor devices	A12-E07C L04-E L04-F
for refrigeration and ac	J07-A10	husks	B04-A07D2 B04-A09F C04-A07D2 C04-A09F	assemblies	L04-F01
for batteries	A12-E06C	meal	B04-A07D2 B04-A09F C04-A07D2 C04-A09F	assembly on a substrate	L04-C10A1
for joining glass	L01-H07	protectant	B12-N07 C12-N07 C14-U02	electrical fuses	L04-C23
Sealing		viability determination	B12-K04 C12-K04	lead frames	L04-C23
circuits into packages or		yield increasing	B12-P03 C12-P03 C14-U01B	photographically	
housings	L04-F05		H01-A01A	produced	C06-D06
composition	G04-B02	Seismic surveying		polymer use in	A12-E07C
polymers	A11-C01+			substrates	L04-C22
Seals	A12-H08			testing, process monitoring and control	L04-C18
battery	A12-E06C L03-E01D			Semiconductor layer	
ceramic-metal	L02-J01C			doping by diffusion	L04-C02D
glass-metal	L01-H04			doping by gaseous,	L04-C02C
lamp	L03-C03A			liquid or solid contact	L04-C02B
packaging	A12-P03			doping by ion injection	
Seam welding				growth by chemical	
electric arc	M23-D01A1			vapour deposition (CVD)	
resistance	M23-D02A2			and plasma deposition	L04-C01B
Seamed metal tube production	M21-C			growth by epitaxial	L04-C01
Seasoning of wood or timber	F05-B				
Seats for automobiles	A12-T04B				
fabric use	F04-E03C				
Seaweed	B04-A07D5 B04-A08 C04-A07D5 C04-A08				
artificial, e.g. for preventing erosion	F04-G				
Sebacates plasticisers/ extenders for polymers	A08-P04				

growth by liquid epitaxy	L04-C01A	insulating and passivating		handling equipment	L04-C20C
vapour deposition	L04-C01C	layers	L04-C12	encapsulation, moulds and	
Semiconductor manufacture		ion beam etching	L04-C07A	handling equipment,	
cathode sputtering	L04-D02	isolation of mesas, islands	L04-C12C	polymers in	A12-E04
diffusion apparatus	L04-D06	LOCOS	L04-C12C3		A12-E07C
heat treatment furnaces	L04-D05	marking defective devices	L04-C19	image sensors	L04-E05A
ion and plasma deposition		mask design and		infrared detectors	L04-E05C
apparatus	L04-D04	manufacture	L04-C06A	integrated circuit	
liquid phase deposition		mask design and		encapsulation with lead	
apparatus	L04-D03	manufacture, photographic	G06-D06A	frame assemblies	L04-C20D
ohmic contacts	L04-CT1A		G06-E02	integrated circuit	
vapour deposition		masking + patterning +		encapsulation with lead	
apparatus	L04-D01	etching	L04-C08	frame assemblies,	
Semiconductor processing	L04-C	masking and resist material	L04-C05	polymers in	A12-E04
aligning masks and layers	L04-C06D	masking and resist			A12-E07C
aluminium alloy		materials, photographic	G06-D06	lasers	L04-E03B
conductive tracks	L04-C10C		G06-E02	light receiving and	
amorphous layers	L04-C03	masking and resist		detecting devices	L04-E05
ancillary equipment	L04-D10	materials, polymeric resists	A12-E07C	Fluorescent and luminescent	
attaching lead frames	L04-C24		A12-L02B2	materials for semiconductor	
buried layer production	L04-C10G	microwelding	L04-C17C	manufacture	L03-G09G
by liquid phase etching	L04-C07C	nitride insulating layers	L04-C12B	materials	L04-A
by plasma etching	L04-C07D	other conductive tracks	L04-C10F	memory elements	L04-E15
conductive + insulating lay		oxide layers	L04-C12A	Metal coatings, processes	M13-F03A
formation	L04-C14	patterning techniques	L04-C06	photodiodes	L04-E02A
conductive layer conversion		plastics passivation layers	A12-E07C	photoresistors	L04-E05G
to semiconductor or			L04-C12E	phototransistors	L04-E01G
insulator	L04-C10H	precious metal (alloy)		resistor	L04-C12G
conductive layers and		conductor tracks	L04-C10E	single crystals manufacture	L04-B
track manufacture	L04-C10	resin encapsulation	A12-E04	switches	L04-E08
conductive polycrystalline			A12-E07C	wafer production slicing,	
silicon layers	L04-C10B		L04-C20A	polishing etc.	L04-B04
conductive tracks, circuits	L04-C10A	resist coating apparatus	L04-D08	waste processing	L04-X02
contacts, terminals,		resist coating apparatus,			L04-X03
electrodes manufacture	L04-CT1	photographic	G06-D06A	water production	L04-X01
conversion of insulating			G06-E04	Semipermeable	
layers to semiconducting		resistor	L04-C12G	property of polymer	A09-A09
or conducting layers	L04-C12F	resists	L04-C06B	Senile dementia treatment	B12-C10
copper alloy conductive		resists, photographic	G06-D06A		B14-J01A4
tracks	L04-C10D	sealing devices into housing	L04-C21		C12-C10
doping of layers and region	L04-C02	semiconductor-on-			C14-J01A4
electrodes	L04-CT1C	insulator	L04-C12C1	Senility treatment	B12-G04A
electrophotography	G06-D06A	soldering apparatus	L04-D07		B14-J01A4
encapsulation	L04-C20	soldering techniques	L04-C17A		C12-G04A
encapsulation, polymers in	A12-E04	temporary bonding	L04-C17D		C14-J01A4
	A12-E07C	terminal posts	L04-CT1D	Sensitisers for explosives	K04-G
etching	L04-C07	thermoccompression bonding	L04-C17B	Sensitisers, photographic	
forming layers with		through hole connection		chemical	G06-H01
simultaneous doping	L04-C02A	formation	L04-C13B	optical	G06-H07+
forming through holes		trench isolation	L04-C12C2	spectral	G06-H07
between conductive layers	L04-C13A	vapour phase etching,		spectral, cyanine	G06-H07A
furnace furniture, crucible		dry etching	L04-C07B	spectral, merocyanine/	
boats, wafer supports etc.	L04-D09	washing, rinsing and		neutrocyanine	G06-H07B
glass passivation layers	L04-CT2D	drying of wafers etc.	L04-C09	spectral, oxanol	G06-H07C
groove formation, dicing,		Semiconductors	L04	spectral, pyrylium	G06-H07D
chip cutting	L04-C07E	ancillary processes	L04-X	Sensors (electrical)	A12-E13
heat sinks	L04-C25	apparatus	L04-D	Sensors, non-electrical	A12-L04B
heat treatment	L04-C16	bonding processes	L04-C17	Separation	B11-B
hole and window		clean room	L04-X04		CT1-B
manufacture	L04-C06C	encapsulation, moulds and			E11-Q



by adduct formation (petroleum)	H02-D02	feed or removal or trimming	F02-F01B2	discontinuous paper	
methods for testing or diagnosis	B11-C08B	thread cutter	F02-F01B2	and cardboard	F05-A04D
	C11-C08B	workpiece feeder	F02-F01B2	extrusion of	A11-B07A
of gases by liquefaction or solidification	J07-D02	Sexual dysfunction treatment	B14-P02	forming of	A11-B08+
of particles from gases	J01-G		C14-P02	heat sealing/welding	
Separation of			B14-P04	involving	A11-C01A1
of isotopes	J01-J		C14-P04	laminated	A12-S07A
	K08-X01	Female sexual dysfunction	B14-P04B	laminating	
of particles from liquids	J01-F		C14-P04B	(excl. A11-B09A+)	A11-B09D
of solids	J01-K	Male sexual dysfunction	B14-P04A	reinforced plastics	A12-S08A
Separators			C14-P04A	transfer	A12-W07F1
oil production	H01-D04	Shades, lighting (polymer use)	A12-L03	Sheets, bed linen	A12-D01
primary and secondary cells	A12-E06B	Shadow mask for CRT	L03-C03B		F04-D01
	L03-E01A	Shampoos	A12-V04A	Shell moulding of polymers	A11-B04B
fuel cell	L03-E04C		B12-L05	Shell moulds (polymer use)	A12-A02
Sephadex®	A03-A+		B14-R02	Shellac	A03-C02
	B04-C02C		C12-L05		B04-B04M
	C04-C02C		C14-R02		C04-B04M
Sequestering agents			D08-B04	Shells	K03-A01
adding to water	D04-A03	Shape and form of coatings	G02-A07	Shielding	
in detergents	D11-B06	Shape memory property	A09-A05B	for nuclear reactor	K05-B02
polymer additives	A08-A07	Shaped glass manufacture by sol-gel process		from nuclear radiation	K07-A02
Serratophytes	B04-A08C	L01-E08		Ships (polymer use)	A12-T+
	C04-A08C	Shaping		Shirts	A12-C03
Serotonin antagonist	B12-G01	ceramics and refractories	L02-A03		F04-C03
	B14-J04	dough	D01-A02	Shitake cultivation	D05-A04C
	C12-G01	polymers	A11-B+	Shock	
	C14-J04		A11-C+	anaphylactic shock	
Serotonergic	B14-J03	Shaving		treatment	B14-C02B
	C14-J03	brush	A12-V04		C14-C02B
Serum		soapless	D08-B07	electro-convulsive therapy	B12-D10
albumin	C04-B04D2	Shear precipitating fibres and fibrils	F01-C07		B14-J06
blood	C04-B04D4	Shearing of			C12-D10
Servicing oil and gas wells	H01-C10	fabrics	F03-A	plasma substitute treatment	B12-H06
Set accelerators for concrete manufacture	L02-D14	plastics	A11-A05		B14-F11
Setting		Sheath-core fibres	A12-S05B		C12-H06
fibres with heat	F01-H05		F01-E01	septic shock treatment	B14-S06
film with heat	A11-B02C	Sheathings for electrical conductors and cables	A12-E02+		C14-S06
Severing of			G02-A05A	toxic shock treatment	B14-S06
fabrics (including webs)	F03-K03	Sheaths, contraceptive	A12-V03B		C14-S06
polymers	A11-A05+	Shedding mechanisms for looms	F02-A02	traumatic shock treatment	B14-S07
Sewage	B04-B04B	Sheet metal working	M21-E		C14-S07
	C04-B04B	bending and corrugating	M21-E01	treatment general	B14-S05
treatment	A12-W11+	deep drawing	M21-E03		C14-S05
	D04-A01J	flanging	M21-E01	treatment of electric shock	B14-S05
	D04-B01	pressing and punching	M21-E02		C14-S05
	E11-Q	sheet mills (metal rolling)	M21-A03B	treatment using electric shock (e.c.t.)	B14-J06
Sewing	F02-F01+	spinning	M21-E03		C14-J06
accessories	F02-F01B+	stamping	M21-E02	Shock absorbers	A12-H09
fasteners, button(holes) etc.	F02-F01A1	straightening	M21-E01	Shock proofness of polymers	A09-A05A
threads	F01-E	stretch forming	M21-E03	Shoes	A12-C04
	F02-F01	structure manufacture	M21-E04		F04-C05
to make specific goods	F02-F01A+	Sheet moulding compounds	A12-S	production of	F04-F02
Sewing machine		Sheets	A12-S07+	Showers (polymer use)	A12-R02
control devices,		casting process	A11-B04C	Shrink packages	A12-P04
micro-computers etc.	F02-F01B1	corrugated and		Shrink proofing of fabrics	

non-resinous	A12-S05R			Silicon polymer coatings	A12-B01C
	F03-C04	use	L02-G12E		G02-A01A
resinous	A12-G02	with alumina catalyst	E31-P03	Silicone oils	A06-A+
	F03-C04		N01-C01	Silicone resins	A06-A+
Shrink resistant textile finishes	A12-G02		N01-C01B		A06-A00E1
Shrinkability, thermal of		without alumina catalyst	N01-D	adhesives	G03-B01
polymers	A09-A01A		N01-D02	applications	A06-A00E+
Shrinking	A11-B02E	Silicate additive for detergents	D11-B11	compounding	A06-A00B
of fibres	F01-H05	inorganic	D11-B11A	fabrication	A06-A00C
of films	A11-B02E	Silicate filler	A08-R06B	paints	A06-A00E1
textiles	F03-A02		G01-A06		G02-A01A
Shutdown of reactor		Silicic acid filler	A08-R06A	production	A06-A00A
controlled	K05-B06A1		G01-A06	treatment	A06-A00D
Shutdown of reactors	K05-B06A	Silicides		Silk	A03-C01
emergency	K05-B06A2	abrasive	L02-F03		B04-B04A
Shutters for windows		ceramic	L02-H02B3		B04-N02
(polymer use)	A12-R02A	hard alloy	M26-B12		C04-B04A
Shuttle weaving	F02-A04A	Silicon (element)	B05-B02C		C04-N02
Shuttlecocks	A12-F01B		C05-B02C	dyeing/printing	F03-F02
Shuttleless weaving	F02-A04B		E31-P06	screen stencil	G05-A04
Shuttles	F02-A05		B04-C03F	treatment to obtain	
Siccatives	A08-C+		C04-C03F	natural fibres, chemical	F01-B01
	A08-D+	Silicon catalysts	N01-D	treatment to obtain	
	G02-B04		N01-D03	natural fibres, mechanical	F01-A01
Sickle cell anaemia treatment	B14-F03	Silicon chip devices	A12-E07C	Siloxane polymers	A06-A+
	C14-F03	made photographically	G06-D06	Silver	
Side-by-side fibres	A12-S05B	Silicon containing		alloys	M26-B01
	F01-E01+	adhesion improver		electrodeposition	M11-A05
Sidewalls for tyres	A12-T01+	for polymers	A08-M01D	Silver alloy	
Siding for buildings	A12-R+	as part of an organic ring	E05-E01A	contacts	L03-A01A1
Sieve cloths	A12-H04	condensants	A01-A03	Silver catalysts	N02-E
	F04-E05+		A08-C+		N02-E03
Sieving of solids	J01-K04	crosslinkers	A08-D05	Silver compounds	B05-A03B
Signalling pathway proteins	B04-N13		A08-R06+		C05-A03B
	C04-N13	fillers	G01-A06	inorganic	E35-B
Signs (polymer use)	A12-W03	Inert compounds	D11-B11	organic	E05-M
road	A12-R		D11-B11D2		E05-M03B
Silage	B04-A07D	inorganic compounds	B05-B02C	use in radiation sensitive	
	B04-A09		C05-B02C	system (excluding halides)	G06-F
	C04-A07D	inorganic compounds		Silver halide (black and	
	C04-A09	excluding silica and silicates	E31-P06	white film)	
Silane adhesion improver		monomers	A01-A03	bleaching, fixing	G06-G02
or coupling agent	A08-M01D	organic compounds	B05-B01A	developing	G06-G01
Silanes			C05-B01A	fixing	G06-G02
inorganic	E31-P06	organic compounds with		other process	G06-G04
organic	E05-E	Si-C bond (aliphatic		stabilisation	G06-G03
Silanes condensants/		or alicyclic)	E05-E02	Silver halide containing	
monomers	A01-A03	organic compounds with		radiation sensitive system	G06-F01+
Silanols condensants	A01-A03	Si-C bond (aromatic)	E05-E01C	core-shell emulsion	G06-F01B
Silastic®	A06-A+	organic compounds with		tabular grain emulsion	G06-F01A
Silica	L02-G01B	Si-C bond (heterocyclic)	E05-E01B	Silver oxide electrodes for	
alumina mixtures	E31-P02	organic compounds		batteries	L03-E01B7
bound to enzymes	D05-A01A5	without Si-C bond	E05-E03	Silver production	M25-G22
catalyst support	A02-D	pigments	G01-A06	Silver recovery from	
fillers	A08-R06A	polycondensates	A06-A+	photographic processing	
	G01-A06	Reactive silicon compounds	D11-B11B1	solutions	G06-E
gel sorption (petroleum		Silicon incorporated/		Silver removal from waste	D04-B05
processing)	H02-B02	incorporation by polymer		water	
glass compositions, high	L01-A05	modification	A10-E22A		D04-B05A
glass compositions, low	L01-A04			Silylation reactions	E11-F10
production or modification	E31-P01			Singeing of fabric or textiles	F03-A

Single colour diffusion transfer material	G06-C10+	emollient	B14-R01	Slush moulding of polymers	A11-B04B
Single crystals	J04-A04		C14-R01	SMC	A12-S
growing	L02-A09	general	B14-N17	Smectic (liquid crystal property of polymer)	A09-A02A
growth by Czochralski, Bridgman methods	L04-B01	lightening	C14-N17	Smoke	B12-M01C
Single nucleotide polymorphism	B04-E09		B14-R01		C12-M01C
	C04-E09	wart	C14-R01	alarms, detectors	A12-R02
Sinks	A12-R02		B14-N17	generation	K04-C
cleaner	D11-D01E	whitening	C14-N17	inhibitor for polymers	A08-F
Sintering		wound	D08-B01D1	Smoked sheet (natural rubber)	A03-B
by open furnace apparatus	J09-A04		B14-N17B	Smooth muscle relaxant	B12-E07
ceramics	L02-A04	Skins (hides) treatment	C14-N17B		B14-J05A
coating of (or on) metal	M13-H02	chemical			C12-E07
ferrous ore	M24-A01A	physical/mechanical	D07-B		C14-J05A
glass	L01-G02	Skirts, clothing	D07-A	Smoothing, ironing of textiles	F03-J02
metal powder	M22-H03B		A12-C03	SMR	A03-B
non-ferrous ore	M25-A02	Skis	F04-C03	Smut treatment	C14-A06S
of polymers	A11-B14	Skylights	A12-F01	Snake venom	C04-B04G
polymer pore formation by	A11-B06D	Slags	A12-R04	Snake-cage polymer	A07-A+
Sinusitis treatment	B12-D07	cement		Snow chains	A12-T04E
	B14-N04	preparation	L02-C03	Snow production, for special purpose	J07-B02
	C12-D07	treatment in iron and steel manufacture	L02-B03	SNP	B04-E09
	C14-N04	treatment of ferrous melts	M24-A07B		C04-E09
Site specific release	B12-M10E	Sleep inducing	M24-C07	Soaking pits for ferrous metal ingots	M24-D04A
	C12-M10E		B12-C08		M21-N04
using liposomes	B12-M10E1		B14-J01B2	Soap	
	C12-M10E1	Sleeping bag	C12-C08	additive for polymers	A08-S05
using Antibodies	B12-M10E2	Sleeve, bobbins	C14-J01B2		H08-E07
	C12-M10E2	Slicing, polishing	A12-D01	polymer use in	A12-V04+
Size control during extrusion of polymers	A11-B07D	semiconductor wafers	F01-H03A	Soap detergent compositions	D11-C
Sizes, polymeric, for fabrics or textiles		Slide fastener for clothing		liquid soaps	D11-C01C
sizes, polymeric, for fabrics or textiles	A12-G04		F04-C04	Liquid soap type (hand washing compositions)	D11-D07F
Sizing of paper		fabrication of	F04-F01	soap bars	D11-C01A
external	F05-A06B	sewing of	F02-F01A1	soap powders	D11-C01B
internal	F05-A06C	Sliding contacts	L03-A01A4	soap with non-soap detergents	D11-C02
	F05-A06D	Slip agent additive for polymers	A08-M07	Socket (polymer use)	
Sizing yarn	F01-H06A	Slitting film to form fibres	A11-B02	electric	A12-E+
Ski wax	G02-C		F01-C05	pipe	A12-H02C
Skiing (polymer use)	A12-F01	Slitting of polymers	A11-A05+	Socks	A12-C03
Skin (or extract)	B04-B04E	Sliver drawing of fibres	F01-F02		F04-C02
	C04-B04E	Slivers		Soda lime glass	L01-A01A
Skin care preparations	A12-V04C	feeding of	F01-F04	Sodium bicarbonate	E33-D
	D08-B09	Slub yarn	F01-E	Sodium bromide	E33-B
liquid	D08-B09A1A	Sludges		Sodium carbonate	E33-D
solid	D08-B09A1B	dewatering	D04-B10A	Sodium carboxyl(methyl cellulose	A10-E21A
Skin protection formulations	A12-V04C	fermentation	D05-A04A	Sodium catalysts	N01-A01
	D09-E	pyrolysis	D04-B10B	Sodium chloride	E33-B
Skin treatment	B12-A07	treatment of non-ferrous metal derived	M25-E01	in soil neutralisation	B12-N08
	C12-A07	Slugicide	B12-N04		C12-N08
acne	B14-N17D		B14-B12	Sodium compounds	C14-T01
	C14-N17D		C12-N04		B05-A01B
burns	B14-N17A	Slurries of polymers	C14-B12		C05-A01B
	C14-N17A	Slurry coatings	A12-S	inorganic	E33-S
cancer	B14-H01W	Slurry explosives	G02-A07A1	organic	E05-A
	C14-H01W	Slurry treatment, non-ferrous metals	K04-E01		E05-A02
cosmetics	B14-R01		M25-E01		
	C14-R01				

Sodium fluoride	E33-B	unspecific processes	L01-F05	of cotton or regenerated	
Sodium halide	E33-B	Solar		cellulose	F03-F13A
Sodium hydroxide	E33-A	cells (electrical)	A12-E11B	of other fibre substrates	F03-F13B
electrolytic production	E33-A01		L03-E05B	Solvent extraction	B11-B
production	E33-A02	heat collectors	A12-R02B		C11-B
use	E33-A03		J08-D		H02-C
Sodium incorporated/ incorporation in polymers	A10-E21+	panels	A12-R02B		J01-C01
Sodium iodide	E33-B	Solder glass	L01-H03	of non-ferrous metals	M25-B04
Sodium nitrate	E33-E	Soldering	M23-A	Solvent in detergent	
Sodium oxide	E33-A	apparatus	M23-A03	compositions	D11-B16
Sodium Oxide	E33-A04	apparatus for		Solvent recovery/removal	
Sodium persulphate	E31-E03	semiconductor	L04-D07	from polymer	A10-G01A
catalyst for polymerisation	A02-A01	contacts or electrical		Solvent vapour recovery from	
crosslinker for addition		components	L03-A01B6	gases	J01-E01
(co)polymers	A08-C05	flux	A12-W12F	Solvents	
crosslinker for other		Flux removers	M23-A02	for gas storage	J06-B06
polymers	A08-D	metal compositions	D11-D01B2	for polymers	A08-S02
redox polymerisation catalyst	A02-A03	methods	M23-A04	petroleum products	H08-D03
Sodium sulphate	E33-C	printed circuits	L03-H04E6	Solvents for incorporating	
Sodium sulphite	E33-C	semiconductors	L04-C17A	agents in photographic	
Soft furnishings	A12-D01	together, to a substrate		layers	G06-H19
	F04-D	or in a circuit	L04-F02	Somatomedins	B04-H06H
Softeners for fabrics	A12-S05S	Soles	A12-C04		C04-H06H
	D11-B15	Solid food, testing and		Somatostatin	B04-J10
	F03-C05	monitoring	D03-K04		C04-J10
polymeric	A12-G	Solid lubricant	H07-D	Somatotrophin	B04-B02D4
Soil consolidation	L02-D12	Solid oxide electrolyte cells	L03-E04A		B04-J05J
in mining	A12-W10C	Solid personal face and body			C04-B02D4
polymer use	A12-A02	wash	D08-B09A2B	Somatotropin-releasing factor	B04-J09
Soil fumigant	B12-N07	Solid skin care formulations	D08-B09A1B		C04-J09
	C12-N07	Solidified gases, vessels for	J06-B	Soporific	B12-C08
	C14-U02	Solidifying gases	J07-D01		B14-J01B2
Soil improvers	A12-W04B	for separation	J07-D02		C12-C08
	B12-N08	Solids separation	J01-K		C14-J01B2
	C12-N08	by electrostatic or		Sorption (petroleum	
Soil improving	C14-T01	magnetic process	J01-K02	processing)	H02-B
general	C14-T	by flotation	J01-K03	Sorption-type refrigeration	J07-A02
Soil nutrients		by sieving, screening	J01-K04	Sound insulation	A12-R06
inorganic	B12-N09	using liquids, pneumatic		boards	L02-D15B
	C12-N09	tables or jigs	J01-K01	foam use in	A12-S04B
	C14-T03	Solubilisers	B12-M09	in buildings	A12-R06
	B12-N10		C12-M09	in vehicles	A12-T04B
others	C12-N10	for detergent compositions	D11-B16	polystyrene foam use in	A12-S01A
	C14-T04	Soluble materials for pore		polyurethane foam use in	A12-S02F
Soil resistant textile finishes		formation of polymers	A08-B04	Soup	D03-H01H
non-resinous	A12-S05R	Solution (co)polymerisation	A10-B04	Soya beans	
	F03-C02	Solution formation (excluding		oil from	B04-B01C1
resinous	A12-G03	by polymerisation)	A11-A03+		C04-B01C1
	F03-C02	Solution graft copolymerisation	A10-C03C	protein from	D10-A
Soil stabilisation, consolidation	A12-A02	Solution mining (non- ferrous			D03-F02
in mining	A12-W10C	metal extraction)	M25-B	Space vehicles	A12-T+
Soil suspending agent for		Solution, coating polymer		Spaghetti	D01-B02E
detergents	D11-B05	onto substrates	A11-B05D	Spandex ® fibres	A05-G+
Sol gel processes		Solutions	B12-M07		A12-S05D
ceramic manufacture	L02-A02A		C12-M07		F01-D07
Sol-gel process for		of polymers	A12-S	dyeing/printing	F03-F10
glass manufacture	L01-C06	Solvent auxiliary	B12-M09	Spark erosion	M23-D06
shaped glass manufacture	L01-E08		C12-M09	Sparking plug	L03-H05
shaping glass by		Solvent based lacquers	A12-B01B		
		Solvent dyeing	F03-F13+		

Spasmogenic	B12-E05 B14-J05C C12-E05 C14-J05C	Spin-bonding non woven fabrics	F01-C+ F02-C02	purification of polymers by	A10-G01+ M24-B02E
Spasmolytic	B12-E04 B14-J05D C12-E04 C14-J05D	Spinal cord disease treatment	B12-E02 B14-N16 C12-E02 C14-N16	Spray steel refining	J02-C01
Spastic treatment	B12-E02 B14-J05D C12-E02 C14-J05D	Spindles, textile (general)	F01-G F01-H01	Spraying	A11-B05B1
Special amorphous form	B12-M11H1 C12-M11H1	Spinneret(te)	A11-B15A F01-C01	coating with polymer by deodorization	D09-B01B M13-C
Special dietary requirement foods e.g. diabetic, gluten free	D03-H01T5	Spinning	F01-B15+ F01-C08	Spreading, coating with polymer by	A11-B05+
Special form catalyst	N06-C	artificial filaments, chemical features, general	F01-D	Springs	A12-H09
Special paper and cardboard types	F05-A06+	automated yarn system	F01-G04	Sprouting inhibitor (plants)	B12-P09 C12-P09 C14-U01E
Speciality product (petroleum)	H08-D	die design	A11-B15A A11-B15C	Sprues	A11-B12+
Spectacles		dry	F01-C08A A11-C05C1	Spun bonded fabric	A12-S05G F02-C01
frames	A12-L03	flash	A11-B15A	Spunlacing of non-woven fabric	F02-C02F
lens	A12-L02A A12-V02A	heads	A11-B15B F01-C08B	Sputter coating of	
Spectral analysis	J04-B01A	melt	A11-B15B1 F01-C08B1	metal	M13-G
optical spectroscopy	J04-B01A2	melt, high speed	F01-C08B1	metal, apparatus	
GC-MS	J04-B01C5A	open-end	F01-G05	including target metals	M13-G02
mass spectrometry	J04-B01A1	optical glass fibres	F01-C07E F01-D09B F04-G01	metal, processes	M13-G01
Spectral sensitiser	G06-H07+ G06-H07A G06-H07B G06-H07C G06-H07D	ring	L01-F03G F01-G01	polymer with metal	A11-C04B1
merocyanine	G06-H07B	ringless	F01-G02	Sputtering	
neutrocyanine	G06-H07C	sheet metal	M21-E03 A11-B15C F01-C08C	of ceramics	L02-A02B
oxanol	G06-H07C	wet	B04-B02B3 B04-F08 C04-B02B3 C04-F08	Squeeze bottles	A12-P06A
pyrylium	G06-H07D	Spirella	E26-B B14-N15 C14-N15	Stabilisers	A08-A+ B12-M06 C12-M06
Spectrophotometric tests	B11-C07B2 C11-C07B2	Spiropyran, dye precursor	F01-H03B A12-V03A D09-C04C	antioxidant	A08-A06
Spectroscopy (mass) testing	B11-C08A C11-C08A	Spleen treatment	D09-C04C	antiozonant	A08-A05
Sperm	B04-B02D B04-F03 C04-B02D C04-F03	Splicing of fibres	A11-B02 F01-C05	heat	A08-A04
Sperm ejaculation inhibitors	B12-K03 B14-P01A C12-K03 C14-P01A	Splints	M24-A03 A12-S+ A12-D03	heat, metal containing	A08-A04A
Spermaceti oil	B04-B01C2 C04-B01C2	Splitting film to form fibres	G02-A06A D11-D02C J08-G06	ionising radiation	A08-A02
Spermicide	B12-K03 B14-P01A C12-K03 C14-P01A	Sponge iron production		light or U.V.	A08-A03
Spheroidal graphite cast iron production	M24-C05	Sponge, polymeric		multifunctional	A08-A01+
Spike for fertiliser	B11-C C11-C	Spoons		Stabilisers for	
Spin dryer for laundering fabrics	F03-J01	Sports		addition polymers	A08-A01A
Spin dyeing	F03-F30	areas	A12-F01A	condensation polymers	A08-A01B
Spin finishes for fibres	F01-H06+	equipment	A12-F01+	cosmetics	D08-B11
		goods, foam use in	A12-S04D	detergents	D11-B12
		Spot welding, resistance	M23-D02A3	earth	A12-A02
		Spray booths		explosives	K04-G
		cleaning/maintenance		fabrics	F03-C07
		Spray detergent/cleaning		food (chemical)	D03-H01Q
		Spray drying		photographic developers	
				and emulsions	G06-H03
				photographic images	G06-H11
				polymeric foam, structural	A08-S07
				polymers	A08-A+
				polyolefins	A08-A01A1
				Stabilising after silver halide development (black and white photography)	G06-G03
				Stabilising other colour development (photography)	G06-G13
				Stain resistor for detergents	D11-B05
				Staining of wood	F05-B
				Stairs, staircases	A12-R02
				Stamping of	

paper	F05-A05B	using slags or fluxes	M24-C07	ring "A"	B01-C
polymers	A11-C04C	Steel processing	M24-B02		C01-C
sheet metal	M21-E02	by converter process	M24-B02C	production	E01-P
Stannic, stannous - see Tin		by crucible process	M24-B02A	with saturated ring "A"	B01-D
Staphylococcus	B04-B02B1	by electro-process	M24-B02D		C01-D
	B04-F10B3	by hearth process	M24-B02B	with two double bonds in	
	C04-B02B1	Steel production	M24-A	ring "A"	B01-B
	C04-F10B3	analysis	M24-A06		C01-B
Staple fibres	A12-S05E	apparatus	M24-A05	use	E01-U
	F01-E09	control	M24-A06	5 (10) or 1 (10) - Estrenes	B01-C11
production by cutting	F01-F	laboratory method for			C01-C11
Staple yarn	F01-E09	refining	M24-A06	5 (10) or 1(10) - Androstene	B01-C11
Starch	A03-A+	liquid steel production	M24-A03		C01-C11
	B04-C02B	metallothermic process	M24-A04	5 (10) (or 1(10)) - Gonenenes	B01-C11
	C04-C02B	scrap and slag treatment	M24-A07		C01-C11
	D06-H01	Stencils	A12-W07+	5 (10) (or 1(10)) - Pregnene	B01-C08
acrylonitrile graft co-polymer	A03-A+	printing	G05-A04		C01-C08
	A04-D03+	Stent	B11-C04A1	1 (or 2)-Androstene	B01-C10
as detergent additive	D11-B10		C11-C04A1		C01-C10
modified	B04-C02B3		D09-C01F	1 (or 2)-Estrenes	B01-C10
modified	C04-C02B3	Stentering of			C01-C10
processing raw material	D06-A	fabric	F03-A02+	1 (or 2)-Gonenenes	B01-C10
removal from waste water	D04-B04	polymer	A11-B02+		C01-C10
Static electricity, application		Stereochemistry	B11-C01D	1 (or 2)-Pregnene	B01-C07
of electro (in)organic material	L03-H04B		C11-C01D		C01-C07
Stators for electric motors		Stereographic moulding	A11-B16	3 (or 4)-Androstene	B01-C09
(polymer use)	A12-E08B	Stereolithographic moulding	A11-B16		C01-C09
Steam condenser	J08-A	Stereospecific polymerisation		3 (or 4)-Estrenes	B01-C09
auxiliary system	J08-A05	catalyst excluding			C01-C09
direct contact	J08-A02	transition metal (compounds)	A02-A08	3 (or 4)-Gonenenes	B01-C09
indirect contact	J08-A01	Sterilisation			C01-C09
Steam curing concrete	L02-D04	and hygiene, polymer use	A12-V03C1	3 (or 4)-Pregnene (excluding	
Steam distillation, polymer- purification by		chemical method	D09-A01	progesterone and	
A10-G01+		of alcoholic beverages	D05-F	testosterone)	B01-C06
Steam raising plant (nuclear)	K06-A	of animals	B12-K03		C01-C06
Steaming			B14-P01	Steroids of unknown structure	B04-B02D1
coffee	D03-D01D		C12-K03		B01-E
tea	D03-D02D		C14-P01		B04-J02
Stearates of metal as		of female animals	B14-P01B		C01-E
lubricants/mould release			C14-P01B		C04-B02D1
agents	A08-M03+	of insects	B14-B07		C04-J02
Stearyl acrylate			C12-K03		E01
(co)polymers	A04-F06+		C14-B07	production	E01-P
monomer	A01-D10B	of male animals	B14-P01A	use	E01-U
Stearyl methacrylate			C14-P01A	Sticking plaster	A12-V03A
(co)polymers	A04-F06+	of paper making equipment	F05A04E		B12-M02D
monomer	A01-D10B	of plastics	A11-C		C12-M02D
Steel alloy	M27-A04	of water	D04-A02		D09-C04B
treatment	M27-B04	or air	D09-B	Stilbene	
Steel filler/reinforcing agent		physical method	D09-A02	fluorescent brightener	E24-A01
for polymers, including		Sterilisation of food	D03-H02	photographic brightener	G06-H09B
wires or cords	A08-R05	Sterilising compositions,		Stimulated emission of	
Steel melt treatment	M24-C	medical	A12-V03C1	radiation	G06-A09
alloying of ferrous melts	M24-C08	Steroid biosynthesis	D05-C04		L03-F
apparatus	M24-C09	Steroid of known structure	B01	Stimulation, well	A12-W10B
decarburising	M24-C06		C01	Stirring of polymers	A11-A03
deoxididising	M24-C02		E01	Stitch-bonding for non-	
dephosphorising,		with aromatic ring "A"	B01-A	woven fabrics	F02-C02A
desulphurising	M24-C01		C01-A	Stockings	A12-C03
inoculation, spheroidising	M24-C05	with one double bond in			F04-C02
killing, balancing	M24-C03				
removing other impurities	M24-C04				

Stomach disease treatment	B14-E10B C14-E10B	polymers	A11-B10	adhesive	A04-C+
		Stretchers (polymer use)	A12-V03		A12-A+
Stones		Stretching following extrusion			G03-B02D3
artificial	A12-R01	of polymers	A11-B07D	paint, varnish lacquer	A04-C+
polymer coatings on	A12-B08	Stretching of			A12-B+
Stoppers, for		artificial fibre	A11-B02B		G02-A02D4
containers	A12-P03		F01-C06	Styrene substituted by	
metal casting	M22-G03G1	fabrics	F03-A02	alpha methyl	E10-J02B
Storage	E11-S	fibre	A11-B02B	monomer	A01-D03
batteries	A12-E06+		F01-C06	polymer	A04-C05
containers	A12-P+	film	A11-B02A	Styrene sulphonc acid	
control	J06-B08	polymers	A11-B02+	(co)polymers	A04-C
devices (heat)	G04-B01	Strips dental	D08-B08D	monomer	A01-D02
phosphor for X-ray material	G06-A09	whitening	D08-B14D	Styrenes optionally substituted	A04-C+
of gases and liquids	J06-B	Strip mills (metal rolling)	M21-A03A	Styrenes, halo-substituted	
Storage of		Strippable coatings	G02-A05	(co)polymer	A04-C
gas	J06-B	polymeric	A12-B+	Styropor ®	A12-S01+
glass	L01-J04	Stripping agent or layer for		Styryl dye	E25-B
hydrogen	E31-A02B	photography	G06-A05	Subbed photographic film	A12-L01
liquid	J06-B	Stripping, purification of			G06-A01
plastics/polymers	A11-C06	polymer by	A10-G01+	Subbing agent	
Storage tank	B11-C06	Stroke treatment	B14-N16	for polymers	A08-M01+
	C11-C06		C14-N16	photographic	G06-A01
for oil or gas	H03-E	Strontium catalysts	N01-B	Sublimation	J01-A04
of plastics	A12-P05	Strontium compounds	B05-A01B	dyeing/printing	F03-F27
Stoves for heating blast, iron and steel			C05-A01B	Submerged arc welding	M23-D01A3
production	M24-A05E	inorganic	E34-D03	Substitution process	B11-C01
preheating, cooling or			E34-D03C		C11-C01
drying hot blast	M24-A05E1	organic	E05-B01		E11-H
Straight chain olefins		Stuffer-box crimping	F01-H04A	Substrates	
monomer	A01-D13	Stuffings (non-woven)	F02-C01	electrophotographic	A12-L05D
polymers	A04-G+	Styrenated polyesters	A05-D02+		G06-G05B
polymers, polyethylene			A08-C07A	for printed circuits,	
(HDPE)	A04-G02+	Styrene	E10-J02B	ceramic	L03-H04E5
Straightening sheet metal	M21-E01	(co)polymers with		for printed circuits, plastic	A12-E07A
Stranding of fibres	F01-H01	acrylonitrile	A04-C04B		L03-H04E1
Strapping (packaging use)	A12-P07		A04-D03+	manufacture for	
Straw	B04-A07D4	(co)polymers with		semiconductor devices	L04-C22
	B04-A09H	acrylonitrile + butadiene	A04-C03	Succinic acid	E10-C02D
	C04-A07D4	(co)polymers with butadiene	A04-B03+		E10-C02D2
	C04-A09H	(co)polymers with		Succinic condensant	A01-E12
extracts	B04-A10J	divinylbenzene	A04-B10	Sucker growth inhibitor	B12-P09
	C04-A10J		A04-C04		C12-P09
Strengthening additives for		(co)polymers with			C14-U01E
concrete manufacture	L02-D14B	ethylene-butylene		Suede leather, artificial	A12-B02A
Streptococcus	B04-F10B4	(block terpolymer)	A04-C04		F04-B01+
	C04-F10B4		A04-G04	Sugar (sucrose)	D06
Streptomyces	B04-B02B2		A04-G06+		E07-A02H
	B04-B02B2	(co)polymers with isoprene	A04-B07	cutting	D06-E
	B04-F10B5		A04-C04	extraction from molasses	D06-F
	C04-B02B2	(co)polymers with others	A04-C04	invert	D06-G
	C04-B02B2	crosslinking agent for		juice treatment	D06-B
	C04-F10B5	addition (co)polymers	A08-C07A	packing	D06-E
Streptomycin	B02-S	crosslinking agent for		production of crystals	D06-C
	C02-S	other (co)polymers	A08-D	raw, material processing	D06-A
Stress relieving, ferrous metal	M24-D02B	homopolymer	A04-C02+	raw, processing of	D06-C
Stretch fabrics	F02-G04+	monomer	A01-D03	sorting	D06-E
Stretch films for packaging		Styrene polymer - see also		yield in cane increasing	B12-P04
(polymer use)	A12-P+	Polystyrene			C12-P04
Stretch forming sheet metal	M21-E03				C14-U01C
Stretch-blow moulding of					

Sugars		organic	B10-A09C	organic	E10-A09B1
biosynthesis of	D05-C08		C10-A09C	Sulphonylurea	B10-A08
measurement of	J04-B01B1		E10-A09C		C10-A08
other than sucrose	D06-G	Sulphide ceramics	L02-H03		E10-A08
other sugar derivative	B10-A07E	Sulphides of mercury, cadmium and zinc	L04-A03A	Sulphoxide	B10-A10
	C10-A07E	Sulphides, inorganic (general)	B05-C05		C10-A10
	E10-A07E		C05-C05		E10-A10
unmodified sugar	B10-A07A	production	E31-F02	Sulphur (elemental)	B05-C06
	C10-A07A	use	E31-F04		C05-C06
	E10-A07A	Sulphinamide, organic	B10-A08	production, from waste material	E31-F01
Sugar acid	B10-A07C		C10-A08	production, other use	E31-F02
	C10-A07C		E10-A08	Sulphur acid amide	E31-F04
	E10-A07C	Sulphinic acid (or derivative) organic	B10-A09C		B10-A08
Sugar alcohol	B10-A07B		C10-A09C		C10-A08
	C10-A07B		E10-A09C	Sulphur catalysts	E10-A08
	E10-A07B			Sulphur compound activator	N04-C
production by fermentation	D05-C17	Sulphite, inorganic - see also specific cations	B05-C05		A08-C02
Sugar amine	B10-A07D		C05-C05		A08-D
	C10-A07D		E31-F	Sulphur concrete	L02-D07
	E10-A07D	Sulphite, organic	B10-A09A	Sulphur containing acid, vinyl ester of (co)polymers	A04-A
with known structure, heterocyclic	B07-A02		C10-A09A	monomer	A01-A
	C07-A02	Sulphohalogenated polymer	E10-A09A	Sulphur containing inorganic compound removal from water	
	E07-A02	Sulphoisophthalic acid based saturated polyester	A10-E12B		D04-B07D
with known structure, non-heterocyclic	B10-A07	Sulphoisophthalic condensant	A05-E05	Sulphur containing organic detergent additive	
	C10-A07	Sulphonamide, organic	A01-E11		D11-B17
	E10-A07		B10-A08	Sulphur containing vulcanising agent	
with unknown structure (mono or disaccharide)	B04-D01		C10-A08	for addition polymers	A08-C04
	C04-D01	Sulphonated polymer	E10-A08	for other polymer	A8-D
Suitcases	A12-T	Sulphonated styrene- divinyl benzene copolymer	A10-E12A	Sulphur dioxide	B05-C05
Sulfur - see Sulphur		Sulphonation of styrene- divinyl benzene copolymer	A04-B10		C05-C05
Sulphamic acid (or derivative)			A04-C04		E31-F
inorganic	B05-C03		A10-E12A	(co)polymers	A04-A
	C05-C03			monomer	A01-A
	E31-H03	Sulphonation process	B11-C01	Sulphur dioxide removal from water	
organic	B10-A08		C11-C01		D04-B07D
	C10-A08	by addition reaction	E11-H	Sulphur dyes	E25-E
	E10-A08	for detergent preparation of polymers	E11-F09	for dyeing/printing fibres	F03-F24
Sulfate, aliphatic	E10-A09A2		D11-D05	Sulphur oxide	B05-C05
Sulfate, aromatic	E10-A09A3	Sulphone	A10-E12A		C05-C05
Sulphate ester detergents	D11-A01F		B10-A10	production	E31-F03
Sulphate, cellulose	A03-A03		C10-A10	removal	H06-C03C
	B04-C02A3		E10-A10	use	E31-F04
	C04-C02A3	Sulphonic acid (or derivative)	B10-A09B	Sulphur oxyacid (or inorganic salt)	
	D06-H		C10-A09B		B05-C05
Sulphate, inorganic - see also specific cations	B05-C05	anhydride	E10-A09B	production	C05-C05
	C05-C05	detergents	E10-A09B1	use	E31-F03
	E31-F	ester	D11-A01B		E31-F05
Sulphate, organic	B10-A09A	Sulphonium compounds	E10-A09B1	Sulphur recovery from waste material	E31-F01
	C10-A09A		B10-A01	Sulphur removal from catalysts	E31-F01
	E10-A09A	as disinfectant other than for food or air	C10-A01	Sulphur removal from waste material (catalytic)	E31-F01D
Sulphated polymer	A10-E24	organic	D09-A01B	Sulphur removal from waste material (non-catalytic)	E31-F01E
Sulphation, sulphurisation of polymer	A10-E24	Sulphonyl halide	E10-A01	Sulphuric acid (or inorganic salt)	
Sulphenamide, organic	B10-A08	inorganic	B05-C05		B05-C05
	C10-A08		C05-C05		C05-C05
	E10-A08		E31-F		
Sulphenic acid (or derivative)					



catalyst	A02-A04	Surface hardening, ferrous metal	M24-D02A	wetting agent	A08-S05
ester	B10-A09A	Surface modification/modified polymer	A10-E+	Surge arresters	H08-E07
	C10-A09A	Surface treated polymers	A11-C04+	Surgical gloves	L03-B04E
production use	E10-A09A	Surface treatment of concrete	L02-D14		A12-V03
	E31-F03	glass (coating)	L01-G04		A12-C02
Sulphurous acid (or inorganic salt)	E31-F05	glass (colouring)	L01-G05		A12-V03C1
	B05-C05	glass (mechanical)	L01-G06	gowns/masks	D09-C04D
	C05-C05	glass fibres	L01-F03A	gowns/masks, fabric in product, textile use in	F04-E04
Sulphurous acid ester	B10-A09A	metal by multistage chemical process	M14-H	sponge	A12-V03
	C10-A09A	polymers	A11-C04+	tape and dressings	A12-V03A
	E10-A09A	polymers, chemical	A11-C04D		D09-C04B
Sultam, dye precursor	E26-B	polymers, coating with non-polymeric material	A11-C04B2	Surlyn ®	A10-E21B
Sultone, dye precursor	E26-B	Polymers, embossing	A11-C04C	Suspended particles, separation from liquids	J01-F
Sun screen agent	B12-L08	polymers, material	A11-C04B2	Suspenders	F04-C04
	B14-R05	polymers, metallising	A11-C04B1	Suspending agent	B12-M09
	C12-L08	polymers, painting	A11-C04A		C12-M09
	C14-R05	polymers, printing	A11-C04A	for polymer	A08-S+
	D09-E01	polymers, treatment or irradiation	A11-C04E	Suspension	B12-M14
Sunblinds	A12-R02A	Surfaces treatment of optical glass fibres	L01-F03A1		C12-M14
Sunflower oil	B04-B01C1	Surfaces, pretreatment, for application of adhesives (see also A8-M01+ for adhesion improvers)	G03-B03	Suspension formation (excluding by polymerisation)	A11-A03
	C04-B01C1	Surfactants	A08-S+	Suspension polymerisation involving condensation	A10-B05
	D10-A	as detergents	B12-M09	involving grafting by addition	A10-D+
Sunglasses	A12-C02	for cosmetics	D11		A10-C03B
Sunscreen	D09-E01	for fabrics	A12-S05S	Sustained release	B12-M10A
Super absorbents		for polymers	F03-C05		C12-M10A
polymer application in	A12-W13	polymer compositions use as	A12-W12+	Sutures	A12-V03
Superconductive devices	L04-E09	as cleaning compositions (excluding W12A)	A12-W12B		D09-D
polymer application in	A12-E16	polymer compositions use as detergents for fibre/fabric	A12-W12A	fibre use in	F04-E04
Superconductor	L03-A01C	polymer compositions use as, others	A12-W12C	Swabs	A12-V03A
Support, catalyst	A02-D	removal from water	D04-B06C		D09-C04B
polymeric	A12-W11K	Surfactants (general)	D11-A	Sweetening (petroleum refining)	H04-A01
Supports for		Surfactants excluding cleaning/detergent compositions	A12-W12C	Sweetening agent	B12-J01
coatings forming the support on otherwise unsuitable material	L03-B05L3	anti-foaming agent	A08-S03		B14-E11
magnetic recording	L03-B05L	anti-static agent	A08-S04		C12-J01
metal	L03-B05L2	emulsifier	A08-S05		C14-E11
polymeric	A12-E08A+	for fabrics	F03-C05	Swelling agent for polymers	D03-H01A
	L03-B05L1	protective colloid	A08-S06	Swimming pools	A08-S02
polymerisation catalysts	A02-D	solvent	A08-S02	Swimming suits	A12-F01A
Supports, photographic	A12-L01	swelling agent	A08-S02		F04-C01
	G06-B+				F04-C03
glass; other than specified below	G06-B			Switches, electrical	A12-E07+
metal	G06-B03				L03-B04A
paper	G06-B02			Switches - semiconductor polymer use in	L04-E08
polymeric	G06-B01			Sydnone	A12-E07C
Suppository (for polymer use in, see also A12-V01)	B12-M08				B07-E04
	C12-M08				C07-E04
Surf boards	A12-F01				E07-E04
Surface active agents - see Surfactants				Sylvine (KCl)	B05-A01A
Surface colouring agents	A08-E+				C05-A01A
of polymers	A11-A01+				E33-B
				Sympathetic blocker	B12-E06
					B14-J02D
					C12-E06
					C14-J02D
				Sympathetic depressants	B14-J02D
					C14-J02D

Sympathetic stimulant	B12-E07 B14-J02C C12-E07 C14-J02C
Sympatholytic	B12-E06 B14-J02D C12-E06 C14-J02D
Sympathomimetic	B12-E07 B14-J02C C12-E07 C14-J02C
Synergist	B12-C09 B14-S09 C12-C09 C14-S09
Syntactic foams	A12-W12
Synthetase	B04-L08 C04-L08
agonists	B14-L01A6 C14-L01A6
inhibitors	B14-D10 C14-D10
Synthetases - see Ligases	
Synthesis	H06-A05
Synthetic growth medium	C14-T01A
Synthetic food colorant	D03-H01E2
Synthetic leather	A12-B02A F04-B1+ F01-J02
Synthetic pulp production	F01-C07D
Syphilis treatment	B12-A05 B14-A01A C12-A05 C14-A01A
Syringe components	B11-C02C C11-C02C
Syringe disposal apparatus	B11-C02D C11-C02D
Syringes	B11-C02 C11-C02
dental	D08-A04
hypodermic	B11-C02A C11-C02A
needles	B11-C02B C11-C02B
polymer use	A12-V03D
Syrup processing	D06-C
Syrups of polymers systems	A12-S A12-W07F1

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T(a)eniicide	B12-B02 B14-B03C C12-B02 C14-B03C
T(a)enifuge	B12-B02 B14-B03C C12-B02 C14-B03C
Table linen	F04-D02
Tables	A12-D01
Tablets	A12-V01 C12-M11 D11-D02A
detergent	B12-M11J
effervescent	B12-M11
general	B12-M11B
pressed	B12-M11K
with greater than one layer	B12-M10A3 C12-M10A3
multi-layer	B11-C05 C11-C05
Tabletting machine	A12-D03 L01-G04E
Tableware	B04-J14 C04-J14
glass, coatings on	A08-M05
Tachykinins	A12-P
Tackifier for polymers	F02-B04
Tags, labels	M21-N01 M21-A05
Take off devices for knitting machines	A08-R06B B04-D02
metal working other than rolling mills	C04-D02
rolling mills	A12-V03A D09-C02A
Talc filler	B12-M17 C12-M17
Tampons	H03-C A12-P05
Tank cars and trucks (for oil products)	D07-B N03-C
Tanks, drums (including linings)	N03-C03
Tanning compositions	A02-A06
Tantalum catalysts	B05-A03B C05-A03B
for polymerisation	E35-N E05-N
Tantalum compounds	E05-N03A A12-S05A F01-E02
inorganic	
organic	
Tapered fibres	
Tapes	
adhesive	A12-A01
electrical insulation	A12-E03
fabric	F02-E02
film use in	A12-S06+

magnetic	A12-E08A1 L03-B05A
packaging (strapping)	A12-P
teeth cleaning	D08-B08D
teeth whitening	D08-B14D
Tapestries	F02-E03
Tapeworm treatment	B14-B03C C14-B03C
Tar in polymeric blend	A07-A01A
Tar paint	A03-C03 A12-B01D G02-A02A D04-B03
Tar removal from water	
Tar sands production and treatment	H01-D11
Tar-bonded refractory	L02-E07
Tarpaulins	F04-B
Tars	A03-C03 B04-D02 C04-D02
Taste modifying enhancement	D03-H01B+
masking	D03-H01B2 B12-M20 C12-M20 D03-H01B1
Tatami	A12-D A12-D01
Tautomerase	B04-L07 C04-L07
Taxanes	B06-A03A C06-A03A
TDI condensant	A01-E02
TDI crosslinking agent for addition polymers	A08-C09A
for other polymers	A08-D04A
Tea	D03-D
general	D03-D02
Tea bags	D03-D02A
Tea substitutes	D03-D03
Tear gas activity	B12-C05 C12-C05
Tear strips for containers, packaging	A12-P03
Technetium catalysts	N03-E
Technetium compounds	B05-A04 C05-A04
inorganic	E35-Y
organic	E05-M E05-M03
Tedlar®	A04-E10A
Teeth (dental)	B04-B04E C04-B04E
cleaning preparation	A12-V04B D08-B08
false	A12-V02B D08-A03
floss	D08-B08E
whitening general	D08-B14+
Toothpaste, tooth powder	D08-B14A
Mouthwash	D08-B14B
Gels	D08-B14C

Strips	D08-B14D	catalysts	N06-D	Tetramethylene glycol condensant	A01-E14
Teflon FEP®	A04-E09		J04-E10		
	A04-E10D	cement and ceramics	L02-A08	Tetramethylthiuram disulphide accelerator for crosslinking agents	
Teflon TFE ®	A04-E08+	concrete	L02-D08	for addition polymers	A08-C03
Television cabinets	A12-D01	electrical equipment use in fabrics	A12-E13	for other polymers	A08-D
tubes	A12-E11A	fibres	F01-H	Tetraol condensants	
Telluride ceramic	L02-H05	for bacteria	D05-H04	alcohols	A01-E14
Tellurium (element)	B05-B02C	for fungi	D05-H05	phenols	A01-E13
	C05-B02C	for plant disorders	B12-K04D	Tetraoxane condensant (co)polymers	A05-H02+
	E31-G		C12-K04D	condensant	A01-E09
Tellurium catalysts	N04-A	for substances other than for diseases	B12-K04E	Tetrazole	B07-D13
Tellurium compounds inorganic	B05-B02C		C12-K04E		C07-D13
	C05-B02C	genetic	D05-H09		E07-D13C
	E31-G	glass	L01-M	Tetron ®	A05-E04+
organic	B05-B01D	medical equipment use in method involving separation	A12-V03C2	Textile dyes	A08-E03+
	C05-B01D		B11-C08D		E02
	E05-K		C11-C08D		F03-F16+
Telogens (for telomerisation)	A02-B	microbiological	D05-H09	Textile finishes	A12-G+
Telomerisation	A10-B08	oil storage	H03-X02		A12-S05+
Temperature applications (electrical)	A12-E10	paper	F05-A05A		F03-C+
control devices	A09-D+	polymers	A09-C	Textile mechanical processing	
measurement (electrical)	A12-E10	refractories	L02-A08	crimping	A11-B02D
sensitive compositions	G04-B09	viruses	D05-H06A		F01-H04+
Tendon, artificial	D09-C01D	yarns	F01-H	fibrillating	A11-B02+
Tenebrescent materials	G04-A01	Testosterone	B01-C05		F01-C05
Tennis	A12-F01+		C01-C05	heat setting	A11-B02C
Tensile strength	A09-A05	Tests	B11-C07		F01-H05
Tension devices	F01-H08		C11-C07	melt blowing	A11-C05A1
			E11-Q	orienting	A11-B02B
Tentering of fabrics	F03-A02	Tetrabromobisphenol A			F01-C06
plastics	A11-B02+	condensant	A01-E13	others	A11-C05C
Tents	A12-F01	flame retardant	A08-F04B	producing fabrics	A11-C05A
Terbium compounds	B05-A03B	Tetracarboxylic condensants			F02+
	C05-A03B	aliphatic/alicyclic	A01-E12	stretching	A11-B02B
catalysts	N03-A02B	aromatic	A01-E11		F01-C06
inorganic	E34-E02B	Tetracycline	B02-T	twisting, winding	A11-C05B
organic	E05-P		C02-T		F01-H01
Terephthalic (acid or derivatives) condensant	A01-E11	Tetrafluoroethylene- trifluoro-nitrosoethylene copolymer	A04-A04	Textile oils	F01-H03+
Terephthalic acid	B10-C02		A04-E09		H08-D06
	C10-C02	Tetrafluoroethylene (TFE)	E10-H02B	Textiles	
	E10-C02C		E10-H03A3	carriers for microorganisms	D05-A03A
	E10-C02C1B	(co)polymers	E10-H04A3	nuclear applications to polymer use in, (meth)acrylic ester (co)polymers	K09-F
	E10-C02C2B	homopolymer	A04-E09		A04-F06E2
Terephthalic acid derived saturated polyesters	A05-E04+	monomer	A01-D12		F01-D08
Terephthalic acid polyester - see Polyester, saturated		Tetrahydrofuran (THF)	B07-A02	polymer use in, (meth)acrylonitrile (co)polymers	
			C07-A02		A04-D03B
Terminal posts for semiconductor devices	L04-C11D		E07-A02		F01-D02
Terpene resins	A03-C	(co)polymer based polyether condensant	A05-H05	polymer use in, (meth)acrylonitrile homopolymers	
Terpene-phenol resin	A05-J		A01-E08		A04-D02B
Terylene ®	A05-E04+	Tetrahydrophthalic condensant	A01-E12	polymer use in, aramid	A05-F05
Test equipment (petroleum refineries)	H05-K	Tetrahydropyran	B07-A02		F01-D03B
Test sampling devices	B11-C08C		C07-A02		
	C11-C08C		E07-A02		
Testing	B12-K04	Tetrahydropyridine	B07-D04D		
	C12-K04		C07-D04D		
			E07-D04D		

acetate	A03-A02A F01-D01	ceramic oxides	L02-G06	Thiazole	B07-F01 C07-F01 E07-F01
polymer use in, polyamide	A05-F01E1 F01-D03	ceramics/glass use in, compositions	L02-D15D	photographic brightener	G06-H09D
polymer use in, polyester	A05-E01B F01-D04	ceramics/glass use in, flexible sheet	L02-D15C	Thick film	
polymer use in, polyethylene	A04-G02E1 F01-D05	panels	L02-D15B	capacitors and pastes	L03-B03C
polymer use in, polypropylene	A04-G03E F01-D05	polymer use in, building and general	A12-R06	capacitors and pastes, polymer use in	A12-E07B L03-H04E4
polymer use in, polysaccharides, general	A03-A01A F01-D10	polymer use in, foam	A12-S04B	circuits	L03-H04E4
polymer use in, polyurethane	A05-G01E1 F01-D07	polymer use in, foam, polyurethane	A12-S02F	circuits, polymer use in	A12-E07A
polymer use in, polyvinyl chloride	A04-E02E2 F01-D08	polymer use in, pipes	A12-H02D1	resistors and pastes	L03-B01C
polymer use in, PVA	A10-E09B F01-D08	polymer use in, vehicles	A12-T04B	resistors and pastes, polymer use in	A12-E07C
polymer use in, rayon, regenerated cellulose	A03-A05A F01-D06	Thermionic generator	L03-E05	Thick moulding compounds (TMC)	A12-S
polymer use in, silicones, siloxanes	A06-A00E1 F01-D09	Thermistors	L03-B01A2	Thick-and-thin fibres	F01-E02
Textured fibres	A12-S05C F01-E01A F01-E04	Thermo-optical device	L03-G10	Thickener for detergent compositions	D11-B24
Texturing of fibres	A11-B02D F01-H04+	material	L03-G09D	food	D03-H01J
Thallium catalysts	N03-G04	Thermochromic dye (general)	E26	polymers	A08-M06
Thallium compounds	B05-A01B C05-A01B	Thermocompression bonding of semiconductor	L04-C17B	Thickness control of float glass	L01-D03C
inorganic	E35-F	Thermocouple	L03-E05A	Thienomycin	B02-P B02-T B06-D04 C02-P C02-T C06-D04
organic	E05-D	Thermoelectric element	L03-E	Thiepin	B07-B02 C07-B02 E07-B02
Thebaine	B04-A04 C04-A04	Thermoelectric generator	L03-E05	Thiet(an)e	B07-B02 C07-B02 E07-B02
Theobromine	B04-A06 C04-A06	Thermoelectric material	L03-G09T	Thiin - see Thiopyran	
Theophylline	B04-A06 C04-A06	Thermoforming	A11-B08+	Thiirane	B07-B02 C07-B02 E07-B02
Therapy	K08-E02	Thermography	A12-L05A G06-F08+	containing condensants	A01-E07
Thermal		Thermomagnetic layers in magnetic recording	L03-B05F	Thio group formation in polymer	A10-E24
cracking	H04-B01	Thermometer	A12-L04 A12-V03D	Thioacetal	B10-A23 C10-A23 E10-A23 E10-A23A E10-A23B
heads (printing)	G05-F02 L03-G10	Thermoplastic elastomer from poly(tetramethylene ether) glycol, diemthyl isophthalate and ethylene glycol	A05-E03 A05-E09 A05-H05	Thioalcohol	B10-E03 C10-E03 E10-E03+
nuclear reactor processes	K05-A02	Thermoplastic reinforced composites	A12-S08E	Thioaldehyde	B10-D01 C10-D01 E10-D01
properties of polymers	A09-A01A	Thermorubin	B02-T C02-T	Thiocarbonic acid ester	B10-A11A C10-A11A E10-A11A E10-A11A1 E10-A11A2
reforming	H04-C01	Thermoset expanded, foams	A12-S03	Thiocarboxylic acid	B10-C01 C10-C01 E10-C01
stabiliser	A08-A04+	Thermostability of polymer	A09-A01A		
stability of polymer	A09-A01A	Thermotropic (liquid crystal property of polymer)	A09-A02A		
toughening of glass	L01-G03	Thiadiazole	B07-F03 C07-F03 E07-F03		
Thermal (transfer systems (printing))	A12-W07F1	Thiamine	B03-B C03-B		
Thermal insulation		Thiamorpholine	B07-F02 C07-F02 E07-F02		
ceramics/glass use in, boards	L02-D15B	Thiaxanthene	B06-B02 C06-B02 E06-B02		
ceramics/glass use in,		Thiazine	B07-F02 C07-F02 E07-F02		

amide	B10-D02 C10-D02 E10-D02	for other polymers	A08-D	Thymidine	B04-B03A C04-B03A
ester	B10-G01 C10-G01 E10-G01	Thixotropic additive	A08-M06	Thyristors	L04-E04
Thiocyanate (organic)	B10-A14 C10-A14 E10-A14 E10-A14A E10-A14B	Thorium catalysts	N03-A03	Thyrocalcitonin	B04-B02D3 B04-J04A C04-B02D3 C04-J04A
condensants	A01-A A01-E	Thorium compounds	B05-A04 C05-A04 E34-E03 E05-Q	Thyroid active agents	B12-G06 B14-N11 C12-G06 C14-N11
Thiocyanate inorganic	B05 C05 E32-B	Thread guides	F01-H07	Thyroid hormone	B04-B02D3 C04-B02D3 B04-J04 C04-J04
removal from water	D04-B07A	Thread rolling of metal	M21-H	Thyroid hormone general	B04-K01X2 C04-K01X2
Thioethers	B10-H01 C10-H01 E10-H01	Thread traversing guides	F01-H03D2	Thyroid receptors	B04-K01X2
Thioethers, cyclic condensant	A01-E08	Threads - see also section F	A12-S05+	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thioketal	B10-A23 C10-A23 E10-A23 E10-A23A E10-A23B	Throat disease	B14-N05B C14-N05B B12-L04 C12-L04	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thioketone	B10-F01 C10-F01 E10-F01	Throat preparation	B12-L04 C12-L04	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiokols (polymers)	A05-J05	Throat preparations	B14-N05 C14-N05	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiol condensants	A01-A A01-E	Thrombase	B04-H19 C04-H19	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiol rubbers	A05-J05	Thrombin	B04-B02C3 B04-B04D3 B04-H19 C04-B02C3 C04-B04D3 C04-H19	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiophene	B07-B01 C07-B01 E07-B01	Thrombinogen	B04-H19 C04-H19	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
polymer	A05-J12	Thrombokinase	B04-H19 C04-H19	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiophenol	B10-E01 C10-E01 E10-E01	Thrombolytic	B14-F04 C14-F04	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
production	E10-E01P	Thromboplastin	B04-H19 C04-H19	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
use	E10-E01U	Thrombopoietin	B04-H07 C04-H07	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiopyran	B07-B02 C07-B02 E07-B02	Thrombosis treatment	B12-H02 B14-F04 C12-H02 C14-F04	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiosulphonic acid or ester	B10-A09B C10-A09B E10-A09B1	Thromboxane	B04-H03G C04-H03G	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiosulphuric(ous) acid ester	B10-A09A C10-A09A E10-A09A	agonist/mimetic	B14-L04 C14-L04	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiourea	B10-A13A C10-A13A E10-A13A E10-A13A1 E10-A13A2	antagonist/inhibitor	B14-L08 C14-L08	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
condensant	A01-E03	Through hole		Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
Thiuram disulphide		connections formation in		Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
accelerator for		semiconductor processing	L04-C13B	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
crosslinking agents		formation in semiconductor	L04-C13A	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
for addition polymers	A08-C03	processing	L04-C13A	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
		Throw rugs	F02-B02	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
		Thrush treatment	B12-A02C B14-A04B C12-A02C C14-A04B	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
		Thulium compounds	B05-A03B C05-A03B	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
		catalysts	N03-A02B	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
		inorganic	E34-E02B	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
		organic	E05-P	Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F
				Thyroid stimulating hormone (from pituitary gland)	B04-B02D4 B04-J05F C04-B02D4 C04-J05F

Tires	A12-T01 +	synthetic or reconstituted	D07-D	Toxic substance removal	
Tissue (cells)	B04-F01	treatment, chemical features	D07-D	from soil	B12-N08
	C04-F01	Tocopherol	B03-H		C12-J05
Tissue culture	D05-H08		C03-H		C12-N08
tissue culture tests	B11-C08E1	Toilet requisites	A12-V04+		C14-T01
	C11-C08E1		D08-B	Toys, models, educational	
Tissue engineering technologies	B11-C04G	Toluene condensants	A01-E	devices	A12-F
	C11-C04G	Toluene diisocyanate	E10-A14	foam use in	A12-S04D
	D09-C01E		E10-A14A	TPX®	A04-G10
Tissue paper, multiply	F05-A06A2		E10-A14B	Trace elements, physiological	
Titanate adhesion promoters		condensant	A01-E02	amelioration of potable	
or coupling agents	A08-M01C	Toluene diisocyanate		water with	D04-A04
Titanic acid catalysts	N03-B01A	cross-linking agent		Tracers	
Titanium		Toluene diisocyanate crosslinking agent		bound to antigen or	
alloys	M26-B06	for addition polymers	A08-C09A	antibody, chemiluminescent	B11-C07A5
Titanium (production)	M25-G24	for other polymers	A08-D04A		C11-C07A5
Titanium catalysts	N03-B	Toluene solvent	A08-S02	bound to antigen or	
element	N03-B01A	Toluene sulphonic acid-		antibody, colour	B11-C07A2
hydroxide	N03-B01A	formaldehyde resin	A05-J08		C11-C07A2
oxide	N03-B01A	Toluene, vinyl		bound to antigen or	
for polymerisation	A02-A06+	(co)polymers	A04-C05	antibody, enzyme	B11-C07A4
Titanium compounds	B05-A03B	monomer	A01-D03		C11-C07A4
	C05-A03B	Toluene-formaldehyde resin	A05-J08	bound to antigen or	
inorganic	E35-K	Tombs, burial	A12-W	antibody, fluorescent	B11-C07A5
organic	E05-L01	Toner transfer,			C11-C07A5
pigment/filler	G01-A08	electrophotographic	G06-G08B	bound to antigen or	
Titanium compounds		Toners, electrophotographic	A12-L05C2	antibody, radioactive	B11-C07A3
adhesion improvers	A08-M01C		G06-G05		C11-C07A3
Titanium halide polymerisation			G06-G06	radioactive (excluding	
catalyst	A02-A06B	dry toning composition	G06-G05A	antigen-antibody)	B11-C07B5
Titanium oxide	L02-G01E	Toners, image (non-			C11-C07B5
brightener		electrophotographic)	G06-H05	Tracing paper	A12-D05
(inorganic pigment)	A08-E02	Toning, electrophotographic		Tracks (e.g. for caterpillar,	
production	L02-G12A	dry	G06-G05	tank etc.)	A12-T01
Titanium tetrachloride as		liquid	G06-G06	Tracks, (permanent way for)	
Friedel-Crafts/Lewis acid		Tool handles	A12-H	railways	A12-T
catalyst	A02-A04	Tools, mechanical	A12-H	Tractors	A12-T+
Titanium trichloride		Tooth fillings	D08-A01	Traffic sign paints	A12-T+
polymerisation catalyst	A02-A06B	polymer use in	A12-V02B		G02-A05F
Titurization of glass surfaces	L01-G05	Toothbrush	A12-V04B	Trains	A12-T+
TMC	A12-S	Toothpaste	A12-V04B	Tranquilliser	B12-C10
Toadstools			B12-M02A		B14-J01B4
extracts	B04-A10A		C12-M02A		C12-C10
	C04-A10A		D08-B08A		C14-J01B4
Toadstool extracts	B04-A07F1	Toothpowder	B12-M02A	Trans-1,4- polybutadiene	A04-B02+
	C04-A07F1		C12-M02A	Trans-1,4- polyisoprene	A04-B06
whole	B04-A08D		D08-B08	Trans-2-butenic acid	
	C04-A08D	Tops for containers	A12-P03	(co)polymers	A04-F05
Tobacco	B04-A07D	Tote boxes	A12-P06B	monomer	A01-D08
	B04-A08C2	Toughening of glass	L01-G03	Transcription factors	B04-N12
	C04-A07D	Toughness of polymers	A09-A05A		C04-N12
	C04-A08C2	Toupee	A12-V04	Transdermal	B12-M02F
addiction treatment	B12-J05		D08-B		C12-M02F
	B14-M01B	Towels	F04-D	Transducers	A12-E12
	C12-J05	Towels, sanitary	A12-V03A		L03-G10
	C14-M01B		D09-C02	Transesterification in	
artificial	D07-D		F04-E04	polymer modification	A10-E07+
fleck treatment	B12-L10	Town gas production	H04-E10	Transfer	A12-W07F1
	C12-L10	Town waste fermentation	D05-A04A	compositions	A12-W07F1
preparation and processing	D07-C	Tows	A12-S05+		G05-F01
substitutes	A12-W			dyeing/printing	F03-F27
				moulding	A11-B11

of glass	L01-G01A	inorganic	E35	polymer	A08-F03
of glass, hollow ware	L01-E07	organic - 1st series	E05-L	plasticiser for polymers	A08-P05
sheets	A12-W07F1	organic - 2nd series	E05-M	Tributyl tin methacrylate	
Transfer RNA	B04-E07	organic - 3rd series	E05-N	(co)polymers	A04-F04+
	C04-E07	Transmission (polymer use)		monomer	A01-A04
Transfer tails	F01-H03D1	belts	A12-H01		A01-D08
Transferases	B04-B02C4	fluids	A12-W02+	Tricarboxylic condensants	
	B04-L04	Transparency of polymer	A09-A02	aliphatic, alicyclic	A01-E12
	C04-B02C4	Transplant rejection inhibitor	B14-G02C	aromatic	A01-E11
	C04-L04		C14-G02C	Trichlorofluoro- methane	
agonists	B14-L01A2	Transport applications	A12-T+	volatile blowing agent	A08-B04A
	C14-L01A2	Transport, reinforced		Trichocephalasis treatment	B12-B02
enzyme process	D05-A01B2	polymer use in	A12-S08D3		B14-B03A
	D05-A02B	Transportation of polymer			C12-B02
inhibitors	B12-G01B2	material	A11-C06		C14-B03A
	B14-D06	Transporting		Trichogenic	B12-L05
	C12-G01B2	apparatus	B11-C06		B14-R02
	C14-D06		C11-C06		C12-L05
production by fermentation	D05-C03D	caps and bobbins	F01-H03C		C14-R02
Transformed cells	D05-H14	food	D03-K08	Trichomatosi treatment	B12-A02
Transformer oil	L03-B02D	Transuranic catalysts	N03-A		B14-A03D
Transformers	A12-E08B	Transuranic compounds	B05-A04		C12-A02
	L03-B02D		C05-A04		C14-A03D
Transgenic		inorganic	E35-R	Trichomonicide	B14-A03D
animal	B04-P01+	organic	E05-Q		C14-A03D
	C04-P01+	Trauma		Trichuris treatment	B12-B02
	D05-H16A	physical	B14-N17B		B14-B03A
plant	B04-A08+		C14-N17B		C12-B02
	C04-A08+	Travel goods	A12-T		C14-B03A
	D05-H16B	Traversing guides for threads	F01-H03D2	Trickle coolers, direct contact	J08-B01
Transomatic animal	D05-H16C	Tray, packaging	A12-P06B	Tricresyl phosphate	
Transomatic plant	D05-H16D	Tread, tyre design	A12-T01B	flame retardant	A08-F03
Transglutaminase	B04-H19	Trematode treatment	B12-B06	plasticiser	A08-P05
	C04-H19		B14-B03	Triethyl aluminium catalyst	A02-A07+
Transistors	A12-E07C		C12-B06	Trifluoro chloroethylene -	
	L04-E01		C14-B03	ethylene copolymer	A04-E10D
CHEMFET	L04-E01F	Triacetate, cellulose	A03-A02+		A04-G08
for LCDs	L03-G05B6		B04-C02A3	Trifluorochloro- ethylene (CTFE)	E10-H02B
field effect	L04-E01A		C04-C02A3	(co)polymers	A04-E10D
junction field effect type	L04-E01A1		D06-H	monomer	A01-D12
metal oxide field effect		Trialkyl orthophosphate	B05-B01P	Trifluoronitro- somethane	
MIST, MISFET	L04-E01C		C05-B01P	(co)polymers	A04-A04
metal oxide			E05-G09C	monomer	A01-A05
semiconductors	L04-E01B	Triallyl cyanurate		Trihydroxypropane condensant	A01-E14
metal oxide semiconductors,		(co)polymers	A04-A03	Triketoimidazolidine polymer	A05-J02
field effect	L04-E01B1	monomer	A01-B03	Trilobal fibres	A12-S05A
photo	L04-E01G	Triaryl methane dye	E25-D		F01-E02
Transition metal (or		Triazine	B07-D13	Trim strips for	
compound) catalyst			C07-D13	automobiles	A12-T04
excluding radical and			E07-D13	furniture	A12-D01
Friedel- Crafts		asymmetrical	E07-D13C	Trimellitates plasticisers/	
(oxy)halides	A02-A06B	condensant	A01-E01	extenders	A08-P03
oxides	A02-A06A	symmetrical, production	E07-D13A	Trimellitic condensants	A01-E11
Transition metal (or compound)		symmetrical, use	E07-D13B	Trimethyl dihydroquinoline	
polymerisation catalyst		Triazole	B07-D13	polymer	A04-D08
activator (non-metallic)	A02-A10		C07-D13	Trimethylol propane	
Transition metal catalysts	N02		E07-D13C	condensant	A01-E14
	N03			Trimethylol propane	
for polymerisation	A02-A06+	Tribromophenol flame		trimethylacrylate	
Transition metal compounds	B05-A03	retardant for polymer	A08-F04B	(co)polymers	A04-A03
	C05-A03	Tributyl phosphate		monomer	A01-B03
		flame retardant for			

Trimming		Tubular films	A12-S06+	studs	A12-T01B
polymer treatment	A11-A05+	production	A11-B07A	tread design	A12-T01B
sewing workpiece	F02-F01B2		A12-S06A	vulcanisation	A11-C02A1
Trimmings	F02-E02	treatment	A12-S06B		
Triolefinic compounds		Tufted fabrics	A12-S05J		
(co)polymers	A04-A03	Tufted product, general	F02-D		
monomer	A01-B03	Tufting	F02-D		
Trioxane		Tumour diagnosis	B12-K04A1		
(co)polymers	A05-H02+		C12-K04A1		
monomer	A01-E09	Tumour inhibitor	B12-G07		
Trithiocarbonate (organic)	B10-A11A		B14-H01		
	C10-A11A		C12-G07		
	E10-A11A		C14-H01		
	E10-A11A1	Tumour necrosis factor	B04-H08		
	E10-A11A2		C04-H08		
Tritium compounds	B05-A04	Tumour producing	B12-G07		
	B05-A04B		B14-H02		
	C05-A04		C12-G07		
	C05-A04B		C14-H02		
organic	E05-R	Tungsten			
Tropane	B04-A01	alloy	M26-B13		
	C04-A01	production	M25-G28		
Tropomyosin	B04-H20C3	Tungsten catalysts	N03-C		
	C04-H20C3		N03-C02		
Trousers	A12-C03	for polymerisation	A02-A06+		
	F04-C03	Tungsten compounds	B05-A03B		
Trucks	A12-T +		C05-A03B		
Trunks (cases)	A12-T	inorganic	E35-Q		
Trypanocide	B12-B07	inorganic compound			
	B14-A03E	pigment	G01-A14		
	C12-B07	organic	E05-N		
	C14-A03E		E05-N03A		
Trypsin	B04-B02C3	Turbulence treatments of fibres	F01-H02		
	B04-L05C	Turf, synthetic	A12-F01A		
	C04-B02C3		A12-R		
	C04-L05C	Turkey	D02-A03B		
Tuberculostat	B12-A04	Turkey blackhead treatment	C12-B01		
	B14-A01B1		C12-G02		
	C12-A04	Turpentine, obtaining spirits of	G02-B02		
	C14-A01B1	Tuyures, iron and steel			
Tubes		apparatus	M24-A05D		
(pre)heating of polymer	A11-A02B	cabinets	A12-D01		
bending and expanding		Twisting, fibre, yarns	A11-C05B		
etc. (metal)	M21-B04		F01-H01		
collapsible for packaging	A12-P06C	Typewriter ribbon	A12-D05A		
formation formation, glass	L01-F02		F02-E02		
formation, polymeric, by		Tyre moulding or manufacture			
winding strips	A11-B08+	process	A11-B17		
forming processes	A11-B08C	Tyres	A12-T01+		
mills (metal rolling)	M21-A03	building equipment	A11-B17		
polymer	A12-H02+		A12-T01A		
ribbed, seamed or finned		cord and cord adhesives	A12-T01C		
metal	M21-C		F04-E01		
used in fibre package		design	A12-T01B		
formation	F01-H03A	inner tubes	A12-T01		
with polymer coatings	A12-B07C	moulding or manufacture,			
	A12-H02D	equipment	A12-T01A		
Tubing - see also Hoses	A12-H02+	retreading, scrap recovery,			
forming (e.g. bending)	A11-B08C	disposal and use of			
Tubs (packaging)	A12-P06B	old tyres	A11-C03+		
			A12-T01D		



## U

Ubiquinones	B04-B02C1 B04-L02 C04-B02C1 C04-L02	Uranium		UV, polymerisation initiated by	
UF resins	A05-B03	enrichment	K05-B04A	addition polymerisation	A10-B06
Ulcer treatment		production	M25-G25	addition polymerisation,	
duodenal	B12-E08 B14-E08 C12-E08 C14-E08	removal from waste water	D04-B05 D04-B05A	grafting	A10-C03C
peptic	B12-E08 B14-E08 C12-E08 C14-E08	Uranium catalysts	N03-A	other (condensation	
Ultrafilters	A12-W11A J01-F02B	Uranium compounds	B05-A04 C05-A04	polymerisation)	A10-D+
Ultramarine mineral, pigment	E31-P02	inorganic	E35-R		
Ultrasonics		organic	E05-Q		
diagnosis	B12-K04C B12-K04C1 C12-K04C C12-K04C1	Urea	B10-A13B C10-A13B E10-A13B E10-A13B1 E10-A13B2		
administration device	B12-M10F C12-M10F	condensant	A01-E03		
heat sealing or welding		substituted	B10-A13D C10-A13D		
of polymers	A11-C01+	unsubstituted	B10-A13C C10-A13C		
polymer treatment	A10-E10	Urea sorption (petroleum			
Ultrasound diagnosis	B12-K04C1 C12-K04C1	processing)	H02-B04		
Ultraviolet - see UV		Urea-formaldehyde resin	A05-B03		
Umbrella	A12-W	Urethanated polymer	A10-E24		
Undecanolactam condensant	A01-E04	Urethane resins	A05-G+		
Underground storage		Urethanisation of polymer			
(hydrocarbons)	H03-F	by modification	A10-E24		
Underlay for carpets	A12-D02	Uric acid	B04-A06 C04-A06		
Underwear	F04-C01	Uridine	B04-B03A C04-B03A		
Uniaxial orientation process	A11-B02+	Urine	B04-B04B B04-B04B1 C04-B04B C04-B04B1		
Unleavened bread	D01-B02C	Urogenital disease treatment	B14-N07 C14-N07		
Unmodified starch	B04-C02B2 C04-C02B2	Uron resin	A10-E08C		
Unnotched Izod impact		Urotropin condensant	A01-E05		
strength	A09-A05A	Use of residues (in			
Unreinforced hoses, tubes,		papermaking)	F05-A02C		
pipes	A12-H02A	Used lubricants (recovery			
Unsaturated acid esterified		and treatment)	H07-H		
polymer	A10-E07+	Usnic acid	B02-U C02-U		
Unsaturated linear		Utensils, cooking	A12-D03		
condensation polymers	A05-D+	Uterus active	B12-E09 B14-N14 C12-E09 C14-N14		
Unsaturated polyester in		UV absorber	B12-L08 B14-R05 C12-L08 C14-R05		
polymeric blends	A07-A+	coloured	E24-E		
Unsubstituted hydrocarbons		UV irradiated/irradiation of			
condensants	A01-E	polymer for			
Upholstery	A12-D01 F04-D03	crosslinking	A11-C02B		
foam use in	A12-S04D	other modification	A10-E10		
in vehicles	A12-T04B F04-E03C	UV sensitive materials	A12-L		
		UV stabiliser for polymers	A08-A03		

## V

V Antibiotics	B02-V01	inorganic compound		Vascular endothelial growth factor	B04-H06M
	C02-V01				C04-H06M
Vaccine		pigment	G01-A14	Vascular tumour treatment	B12-J04
			E05-L03		B14-E04
		organic	E05-L03A		C12-J04
					C14-E04
	activity general	Vanadium oxychloride	A02-A06B	Vaseline	B04-B01C3
		polymerisation catalyst	M25-G26		C04-B01C3
	antibacterial activity	Vanadium production	J06-B	Vasoconstrictor	B12-F06
		Vaporisation of liquefied or solidified gas	J01-A03		B14-F02C
	anticancer activity	Vapour	L01-H	Vasodepressor	C12-F06
		condensation	L03-C02D		C14-F02C
	antiparasitic activity	deposited glass coatings	A10-B		B12-F07
		filling for discharge tubes or lamps	A10-C+		B14-F02D
	antiprotozoal activity	phase addition		Vasodilator	C12-F07
		polymerisation	L04-C07B		C14-F02D
	antiviral activity	phase addition			B12-F07
Vaccine type	other antimicrobial activity	polymerisation, involving ordered copolymerisation	A10-C+		B14-F02D
		phase etching		Vasopressin	C12-F07
		semiconductors	J01-G		C14-F02D
		separation of dispersed particles from treatment	J01-E		B04-B02D4
		Vapour coating			B04-J05B
		coating on metallic substrates	M13-F02	Vasopressor	C04-B02D4
		coating on other substrates including silicon substrates	M13-F03		C04-J05B
		post treatment of coatings	M13-F04		B12-F06
		pretreatment of substrates	M13-F01		B14-F02C
		substrates	M13-F02	Vat dyes for dyeing/printing fibres	C12-F06
		Vapour condenser	J08-A		C14-F02C
		auxiliary system	J08-A05	Vaults, burial	F03-F23
		direct contact	J08-A02		A12-W
		indirect contact	J08-A01	Vectors	D05-H12
		Vapour deposition			D05-H12E
Vaccines (excluding interferon)		apparatus for semiconductor processing	L04-D01		D05-H12E
		for semiconductor layer growth	L04-C01A	cloning	D05-H12E
		of glass (layers)	L01-F06		B04-E08
		Variable			C04-E08
		capacitor	L03-B03D	DNA, cosmids, plasmids	D05-H12E
		denier fibres	F01-E02		D05-H12E
		resistors	L03-B01A	expression	B04-F11
		Variable denier yarns	F01-E08		D05-H12E
		Varicose vein treatment	B12-J04		D05-H12E
			B14-E04	transfer	A12-H01
			C12-J04		
			C14-E04	Vee-belts	
			L03-B01A1		
		Varistors		Vegetable fibres	
		Varnishes			
Vaghy ®		additives for inorganic film formers	G02-A03+		
		derived	G02-A01+	dyeing/printing	
		organic film formers (polymers) derived	A12-B+		
			G02-A02+	treatment	
			G02-B+		
				treatment, chemical	
				treatment, mechanical	
				Vegetable oils/waxes	
Valinomycin				Vegetables, machine for	
				cutting	
				peeling	
				washing	
Valves				Vegetables, preservation	
				Vegetable products	
				Vehicle	
				safety belts	
Artificial heart				Vehicles	
				bumpers/fenders	
				coatings	
				crash pads	

electro (in)organic material applications	L03-H05	Veterinary only	B12-L09	Vinyl bromobenzenes	
fascia	A12-T04B		B14-S12	(co)polymers	A04-C
glass applications	L01-L02		C12-L09	monomer	A01-D02
insulation (acoustic + thermal)	A12-T04B	Vibration dampers	C14-S12	Vinyl butyral, poly-	A10-E02
paints	A12-T05	Vibration, ultrasonic (polymer modification)	A12-H09	Vinyl butyrate	
parts, accessories	A12-T04+		A10-E10	(co)polymers	A04-F10
seat fabrics	F04-E03C	Vibrio	B04-F10A9	monomer	A01-D10A
shells	A12-T02		C04-F10A9		
upholstery	A12-T04B	Video discs	A12-W01A	Vinyl caprolactams	
	F04-E03C	magnetic	A12-E08A2	(co)polymers	A04-D05
Veneer	A12-A04+	optical	A12-W01A	monomer	A01-D01
Venereal disease treatment	B12-A05		A12-L03C		
	B14-N07C	Video magnetic tape	A12-W01A	Vinyl carbinol	
	C12-A05		A12-E08A1	(co)polymers	A04-F
	C14-N07C	Vinegar	D05-G	monomer	A01-D09
Venetian blinds	A12-R02A	Vinyl acetal polymers	A10-E02	Vinyl carboxylate - see Vinyl ester	
Vermicide	B14-B03	Vinyl acetamide monomer			
	C14-B03	(co)polymers	A04-D	Vinyl carboxylic esters (monoolefinic) - see Vinyl ester	
annelides	B14-B03	monomer	A01-D07		
	C14-B03	Vinyl acetate	E10-G02+	Vinyl chloride	E10-H02J
cestodes	B14-B03	(co)polymer (excluding ethylene)	A04-F09	(co)polymers	A04-E03+
	C14-B03	(co)polymer with ethylene	A04-G07	(co)polymers, preparation	A04-E03A
distomicide	B14-B03D	homopolymer	A04-F08	homopolymer	A04-E02+
	C14-B03D	monomer	A01-D10A	monomer	A01-D12
flukes	B14-B03	polymer adhesives	A12-A05B3	polymer adhesives	A12-A05B3
	C14-B03		G03-B02D2		G03-B02D2
leech	B14-B03	polymer coatings on metal	A12-B04E	polymer coatings	A04-E02E2
	C14-B03	polymer coatings/paints	A12-B01F		A12-B+
nematocide	B14-B03A		G02-A02D3		G02-A+
	C14-B03A	production	E10-G02D2	polymer in polymeric blends	A07-A+
platyhelminthes	B14-B03	use	E10-G02H2B	polymer paint, varnish/ lacquer	
	C14-B03	Vinyl acetylene			A04-E02E2
tapeworm	B14-B03C	(co)polymers	A04-A01		A12-B01F
	C14-B03C	monomer	A01-B01		G02-A02D2
threadworm	B14-B03A	Vinyl alcohol polymer - see Polyvinyl alcohol		production	E10-H03C3
	C14-B03A			use	E10-H04C3
trematodes	B14-B03	Vinyl aromatics		Vinyl chlorobenzenes	
	C14-B03	(co)polymers	A04-C+	(co)polymers	A04-C
Versamids®	A05-F04	monomer	A01-D02	monomer	A01-D02
Vertical magnetic recording	L03-B05G		A01-D03	Vinyl cyanide	B10-A15
Vesicular photographic system	G06-C	Vinyl benzene			C10-A15
Vessels for gas, not under pressure	J06-B02	homopolymer	A04-C02+		E10-A15
discharge from	J06-B05	monomer	A01-D03	(co)polymers	A04-D03+
Vessels for gas, under pressure	J06-B01	with acrylonitrile +		homopolymer	A04-D02+
discharge from	J06-B04	butadiene	A04-C03	monomer	A01-D04
filling	J06-B03	with butadiene	A04-B03+	Vinyl cyclohexane (co)polymer	A04-G
Veterinary composition		with other monomers	A04-C04+	Vinyl cyclohexene diepoxide	A05-A05
Veterinary medicine, polymers used in	A12-V+	Vinyl benzene sulphonic acid monomer	A01-D02	Vinyl ester resins	A10-E07B
(meth)acrylate (co)polymer	A04-F06E5	Vinyl benzoate monomer	A01-D02	Vinyl ester, carboxylic (monoolefinic)	
cellulose ether	A03-A04A1			(co)polymers	A04-F+
polyamide	A05-F01E3	Vinyl bromide (see also Vinyl halide)	E10-H02D	adhesives/binders	A12-A05B3
polyethylene	A04-G02E3		E10-H03D2		G03-B02D2
polypropylene	A04-G03E1		E10-H04D2	coatings	A12-B01F
PVA	A10-E09B2	Vinyl bromide/iodide			G02-A02D3
silicone	A06-A00E3	(co)polymers	A04-E05	monomer	A01-D10A
		homopolymer	A04-E04	Vinyl esters of (meth)acrylic acid	
		monomer	A01-D12	Production	E10-G02D1
				Use	E10-G02H02A

Vinyl esters of phosphorus acids (monoolefinic)		Vinyl isocyanate		Vinyl sulphone (monoolefinic)	
(co)polymers	A04-A	(co)polymers	A04-D	(co)polymers	A04-A
monomer	A01	monomer	A01-D07	monomer	A01
	A01-A02	Vinyl ketals, poly	A10-E02		A01-A
Vinyl esters of silicon acids		Vinyl ketones (monoolefinic)		Vinyl thioethers	
(co)polymers	A04-A	(co)polymers	A04-F03	(co)polymers	A04-A
monomer	A01	monomer	A01-D05	monomer	A01
	A01-A03	Vinyl lactam		Vinyl toluene	
Vinyl esters of sulphur acids		(co)polymers	A04-D05	(co)polymers	A04-C05
(co)polymers	A04-A	monomer	A01-D01	monomer	A01-D03
monomer	A01	Vinyl methyl ether		Vinyl trichlorosilane	
	A01-A	(co)polymers	A04-F11	adhesion improver	A08-M01D
Vinyl ethers (monoolefinic)		monomer	A01-D11	Vinyl triethoxysilane	
(co)polymers	A04-F11	Vinyl methyl ketone		adhesion improver	A08-M01D
monomer	A01-D11	(co)polymers	A04-F03	Vinylene carbonate	
Vinyl ferrocene		monomer	A01-D05	(monoolefinic) (co)polymer	A04-F
(co)polymers	A04-A	Vinyl naphthalenes		Vinylidene bromide	E10-H02D
monomer	A01	(co)polymers	A04-C		E10-H03D2
	A01-A04	monomer	A01-D03	(co)polymers	E10-H04D2
Vinyl fibres		Vinyl phenol (monoolefinic)		homopolymer	A04-E07
dyeing/printing	F03-F11	(co)polymers	A04-C	monomer	A04-E06
production, chemical		monomer	A01-D02		A01-D12
features in	F01-D08	Vinyl phosphonate		Vinylidene chloride	E10-H02C
Vinyl floor covering	A12-R03	(monoolefinic)			E10-H03C3
	F04-B02	(co)polymers	A04-A	(co)polymers	E10-H04C3
Vinyl fluoride (see also		monomer	A01	homopolymer	A04-E07
Vinyl halide)	E10-H02B		A01-A02	monomer	A04-E06
	E10-H03A3	Vinyl phthalimides			A01-D12
	E10-H04A3	(monoolefinic)		Vinylidene cyanide	E10-A15A
(co)polymers	A04-E10A	(co)polymers	A04-D08	(co)polymers	A04-D
monomer	A01-D12	monomer	A01-D01	monomer	A01-D04
Vinyl fluorobenzenes		Vinyl polymer polyol		Vinylidene fluoride	E10-H02B
(co)polymers	A04-C	polyurethane	A05-G		E10-H03A3
monomer	A01-D02	Vinyl propionate		(co)polymers	E10-H04A3
Vinyl halide (excluding Cl,F)		(co)polymers	A04-F10	monomer	A04-E10B
(co)polymers	A04-E05	monomer	A01-D10A		A01-D12
homopolymer	A04-E04	Vinyl pyridines (monoolefinic)		Vinylidene fluoride -	
monomer	A01-D12	(co)polymers	A04-D07	chlorotrifluoro- ethylene	A04-E10B
Vinyl halide based		monomer	A01-D01	(co)polymers	A04-E10D
adhesives/binders	A12-A05B3	Vinyl pyrrolidones		Vinylidene halides excluding	
	G03-B02D2	(monoolefinic)		fluorides (monoolefinic)	
coatings	A12-B1F	(co)polymers	A04-D05A	(co)polymers	A04-E07
	G02-A02D2	monomer	A01-D01	homopolymers	A04-E06
paint varnish lacquer	A12-B1F	Vinyl silane (monoolefinic)		monomer	A01-D12
	G02-A02D2	(co)polymers	A04-A	Vinylidene iodide	E10-H02D
Vinyl halobenzenes		grafted polyethylene	A04-A		E10-H03D2
(co)polymers	A04-C		A04-G08	(co)polymers	E10-H04D2
monomer	A01-D02	monomer	A01	homopolymer	A04-E07
Vinyl heterocyclics			A01-A03	monomer	A04-E06
containing N, polymer	A04-D+	Vinyl siliconate (monoolefinic)			A01-D12
Vinyl iodide (see also Vinyl		(co)polymers	A04-A	Vinylon ®	A10-E09+
halide)	E10-H02D	monomer	A01	Virucide	B12-A06
	E10-H03D2		A01-A03		B14-A02
	E10-H04D2	Vinyl stearate			C12-A06
Vinyl iodobenzenes		(co)polymers	A04-F10		C14-A02
(co)polymers	A04-C	monomer	A01-D10A	Viruses	B04-B02B4
monomer	A01-D02	Vinyl sulphonate (monoolefinic)			B04-F11
Vinyl isobutyl ether		(co)polymers	A04-A		C04-B02B4
(co)polymers	A04-F11	monomer	A01		C04-F11
monomer	A01-D11		A01-A		

newly discovered, testing of, isolation of, identification of and detection of	D05-H06A
recombinant	D05-H12F
Viscose fibres dyeing/printing	F03-F09
Viscosity depressants (modifiers) for polymers	A08-M06
Viscosity index (VI) improver (lubricant additive)	H07-G06
polymer use in	A12-W02A
Vitamins	B03
	C03
	E03
A	B03-A
	C03-A
B1	B03-B
	C03-B
B12	B03-E
	C03-E
B2	B03-C
	C03-C
B6	B03-D
	C03-D
C	B03-F
	C03-F
D	B03-G
	C03-G
E	B03-H
	C03-H
K	B03-J
	C03-J
P	B03-K
	C03-K
Vitamins general and other	B03-L
	C03-L
Vitamins, biosynthesis	D05-C10
Viton ®	A04-E10B
	A04-E10D
Vitreous coating of metal	M13-J
post-treatment	M13-J03
pre-treatment of surface	M13-J01
Vitreous enamelling	L01-H06
Volatile blowing agent	A08-B04+
foaming	A11-B06+
Volatile solvent vapour recovery from gases	J01-E01
Vortex flow apparatus	J01-L02
Vulcanisation additive	A08-C+
	A08-D+
Vulcanisation process, general	A11-C02+
for rubber	A11-C02A
of tyres	A11-C02A1
Vulcanised polymer	A11-C02+
Vulcanising agent - see crosslinking	

## W

W/O dispersions of polymers	A07-B+
Waddings	F02-C01
Waffles	D01-B02F
Waist bands for garments	F04-C04
Wall panels, cementitious	L02-D04D
Wallpaper (polymer use)	A12-R07
Walls	
coating compositions for	G02-A05F
wall coverings (polymer use)	A12-R07
Warfare	A12-T03D+
Warheads	K03-A02
Warp	
dyeing/printing	F03-F29
knitting	F02-B03A
Warping (textiles)	F02-A01
Wart treatment	B12-A07
	B14-N17
	C12-A07
	C14-N17
Wash basins	A12-R02
Wash-wear treated fabrics	
non-resinous	A12-S05R
	F03-C04
resinous	A12-G02
	F03-C04
Washers	A12-H08
Washing machine for textiles	F03-J01
Washing rinsing, drying	
semiconductors	L04-C09
Waste	
disposal, other than	
by incineration	J09-C01
disposal, by incineration	J09-C02
encapsulation in glass	L01-F
gas treatment in	
semiconductor processing	L04-X02
heat of furnace utilisation	J09-B03
incinerator	J09-C
organic, fermentation	D05-A04A
	J09-C01B
paper, working up	F05-A02B
polymer recovery	A11-C03+
product cement	L02-C03
radioactive, treatment	K07-B
recycling	J09-C01A
removal from cores	F01-H03E
storage in landfills	J10-A
treatment in polymer	
processing	A11-C07
water treatment in	
semiconductor processing	L04-X03
water recycling	D04-A06
Waste gas treatment	J01-E02
by biological methods	J01-E02H3
by centrifugal methods	J01-E02H2
by combustion	J01-E02H4
by molecular sieve	J01-E02B1

by metal-organic	
framework	J01-E02B2
by wet scrubbing	J01-E02A
	J01-G06
catalytic	J01-E02D
removal of nitrogen oxides	
removal of nitrogen	
oxides, catalytic	E31-H01
removal of nitrogen	
oxides, other	E31-H02
removal of sulphur	
compounds	E31-F01
using ozone	J01-E02H5
with membranes or ion	
exchangers	J01-E02C
with solid absorbent	J01-E02B
Waste water	
containment of	D04-A05
Waste water treatment in	D04-A
	D04-B
metallurgy for non-	
ferrous metal extraction	M25-E01
paper making	F05-A02C
semiconductor manufacture	L04-X02
textile processes	F03-E
Watches (polymer use)	A12-W
Water	B05-C08
	C05-C08
	E31-A
absorbent material for	
dressings	D09-C06
adding scale preventative	
or remover	D04-A03
adding sequestering agent	D04-A03
based lacquer or paint	A12-B01A
	G02-A+
bed or mattress	A12-D01
cooled reactor	K05-A02B
flooding of oil wells	A12-W10B
	H01-D06
gas impregnated	D04-C
in oil (W/O) polymer	
dispersion	A07-B+
jet weaving	F02-A04B
penetration into concrete	
inhibiting	L02-D14Q
polymers used in potable	A12-B
potable, physiological	
amelioration of	D04-A04
production of ultrapure	L04-X01
proofing agent for polymer	A08-S08
proofing concrete, masonry	G02-A05F
proofing, textile finishes,	
non-resinous	A12-S05R
	F03-C02A
proofing, textile finishes,	
resinous	A12-G03
	F03-C02A
purification	D04-A01
purity measurement	D04-A01H

reducing additives for concrete manufacture	L02-D14D	fatty acid preparation from halogenated	D10-B01 B04-B01A C04-B01A	flux removers	D11-D01B2
repellent material for dressings	D09-C05	petroleum products	H08-A	hard surface	M23-E03
repellent, fibre/fabric treatment, non-resinous	A12-S05R F03-C02A	ski unhalogenated	G02-C B04-B01C C04-B01C	in semiconductor manufacture	L04-C17C
repellent, fibre/fabric treatment, resinous	A12-G03 F03-C02A	Weapons	A12-T03D+	inspection and control methods	M23-G
skiing	A12-F01+	Wear-resistant ceramic oxide	L02-G08	jigs and holders	M23-H
soluble polyelectrolytes	A12-M+	Wearing apparel	A12-C+ F04-C+	joint design	M23-J
sterilisation	D04-A02	Weavers' tools	F02-A05	of contacts on electrical components	L03-A01B6
tracking stabiliser for polymer	A08-A	Weaving	A11-C05A F02-A+	of polymers	A11-C01+
transport	A12-T	auxiliary apparatus	F02-A05	pre- and post-treatment	M23-G
treatment general	A12-W11J D04-A D04-B	looms	F02-A04+	rods	M23-F
Water crosslinking agent for addition polymers	A08-C10	looms, conventional	F02-A04A	Wellhead equipment	H01-C06
for other polymers	A08-D06	looms, shuttleless	F02-A04B	Wells (oil)	A12-W10+
Water purification by active carbon treatment	D04-A01F D04-A01F2	Webbing	A12-P07 F02-E02	blowout preventers	H01-C06A
adsorption	D04-A01F D04-A01F3	Webs (fabric), handling	F03-K01	brine flooding	H01-D06A
aeration/oxidation	D04-A01K	Weed control agents		carbon dioxide flooding	H01-D06C
Biological process	D04-A01J	selective	B12-P06 C12-P06 C14-V02	casing	H01-C01
chemical method (e.g. ion-exchange)	D04-A01G	total and general	B12-P05 C12-P05 C14-V01	cementing	A12-W10C H01-C02
distillation	D04-A01A	Weed control compositions		chemical production	H01-D09
electrochemical process	D04-A01M	use of polymers	A12-W04C	completion	H01-C
extraction	D04-A01N E11-Q01B	Weft		consolidation	A12-W10C H01-C09
filtration	D04-A01F D04-A01F1 J01-F04X1	gripper looms	F02-A04B	control equipment	H01-B03B H01-B03B3
flotation	D04-A01L	knitting	F02-B03B	coring	H01-B05B
freezing	D04-A01C	Weight increasing	B12-J01 B14-E11 C12-J01 C14-E11	corrosion inhibition	H01-E02
magnetic treatment	D04-A01Q	Weight reducing	B12-J02 B14-E12 oC12-J02	depleted fields	H01-R
other chemical methods	D04-A01P1	Welding	C14-E12	directional/turbo drilling	H01-B05A
other methods	D04-A01P	aluminothermic	A11-C01+	downhole equipment	H01-B03C
oxidation with ozone	D04-A01K1	ancillary equipment	M23-E02	effluent treatment	H01-E
oxidation/aeration with other	D04-A1K2	backing strips	M23-H	fishing tools	H01-B07
other physical methods	D04-A01P2	electric	M23-J M23-D	flooding	A12-W10B
precipitation	D04-A01B	electric, arc	M23-D01	fracturing	A12-W10B H01-C03
reverse osmosis	D04-A01D	electric, electron beam	M23-D04	lining	A12-W10C H01-C07
using active carbon	D04-A01G	electric, electroslag welding	M23-D07	killing	H01-H
Water soluble tablet	B12-M11L C12-M11L	electric, induction heating	M23-D03	logging	H01-A02
Wave guide		electric, laser beam	M23-D05	logging while drilling	H01-B03B1
electric	A12-E	electric, plasma arc	M23-D01	measuring	H01-B03B2
Wave guides	L03-G02	electric, resistance	M23-D02	other	H01-X
(electro)photographic production of	G06-D06B	electric, spark erosion	M23-D06	packers	H01-C01A
Waxes	A12-S B04-B01C C04-B01C	electrodes	M23-F	perforating	H01-C05
as extenders or plasticiser	A08-P08	explosive	M23-E02	pipes	H01-P
		flame	M23-B	plugging	A12-W10C H01-C02
		flame, burners, gas supply, torches	M23-B01 M23-J	production using bacteria	H01-D13
		flux holders	M23-J	scale inhibition	H01-E05
		fluxes	M23-F	servicing	H01-C10
				steam flooding	H01-D06B
				stimulation	A12-W10B H01-C
				subsurface equipment	H01-B03C
				testing	H01-B08 H01-C11 H01-D12
				thermal production	H01-D08

transmission of		Window cleaning agent	D11-D01C	Wound dressings	A12-V03A
data, power	H01-B03D	Windows			D09-C04B
tubing	H01-C01	frames	A12-R02A		F04-E04
valves	H01-B03B3	glazing	A12-R04	Wound treatment	B12-A07
waterflooding	H01-D06	seals	A12-R02A		B14-N17B
water control compositions	H01-C12	Windscreens	A12-T04A		C12-A07
water control methods	H01-D14	Wine	D05-E		C14-N17B
water treatment	H01-E04	Wipes, multiply	F05-A06A2	Woven fabrics	A12-S05F
Wet end of papermaking machine	F05-A04A	Wire - see also Electrical			F02-A03
Wet extraction of metal compounds	M25-B	Wire insulation (electrical)	A12-E02+	Wrapper, wrapping	A12-P+
ion exchange	M25-B03	compositions	A12-E02A	films	A12-P01A
precipitation as an insoluble compound	M25-B01	fabrication, treatment	A12-E02B	Writing devices	A12-D05B
reduction with hydrogen or metal	M25-B02	Wire insulation removal	A11-C		G02-A04+
solvent extraction	M25-B04	Wire mills (metal rolling)	M21-A03A	Wrought iron production	M24-B01C
Wet laying of non-woven fabrics	F02-C02E	Wire reinforced glass sheet manufacture	L01-D04		
Wet method for extracting non-ferrous metal compounds from ore	M25-B	Wire working	M21-F		
Wet scrubbing of waste gases	J01-E02A	Wire, coating composition for	A12-E02+ G02-A05A		
Wet spinning	A11-B15C F01-C08C	Wolfram - see Tungsten			
Wet treatment of fabrics, apparatus (general)	F03-B F03-C01 F03-F01	Wollastonite filter/reinforcing agent	A08-R06B		
Wetting agent	A08-S05 B12-M09 C12-M09	Wood	B04-A07D3 B04-A09G C04-A07D3 C04-A09G		
Wheel (polymer use)		polymer coating on	A12-B09		
fly	A12-H	preservation/ treatment	F05-B		
grinding	A12-A03	synthetic	A12-D01 A12-R01		
vehicle	A12-T04+	Wood flour/powder filler/ reinforcing agent	A08-R07		
Whey and curds separation	D03-B02	Wood shavings	B04-A07D3 B04-A09G C04-A07D3 C04-A09G		
Whiskers fillers/reinforcing agents	A08-R09	Wood, coatings on	A12-B09 F05-B		
White carbon filler	A08-R06A	Wool	A03-C01 B04-B04E C04-B04E		
Whitening agents	A08-E+ E24-A D08-B01D1	chemical treatment of	F01-B01		
for skin		dyeing/printing	F03-F02		
Whiteware	L02-G03	mechanical treatment of	F01-A01		
Whole animal, general and other	B04-P01 C04-P01	Working fluid for heat engine	G04-B01		
Wide films	A12-S06+	Working of			
Wigs	D08-B F04-G	ferrous metal	M24-D01		
non-transplanted	A12-V04	Working sheet metal	M21-E		
transplanted	A12-V02 A12-V04	bending, corrugating, flanging, straightening	M21-E01		
Winding		deep drawing, spinning, stretch forming	M21-E03		
fabric web	F03-K01	punching, stamping and pressing	M21-E02		
paperweb	F05-A05	Working up			
plastics products excluding fibres/fabrics	A11-C06	flue dust, sludge, slurry or waste water - non ferrous metals	M25-E01		
polymeric fibres, yarns	A11-C05B	waste paper	F05-A02B		
strips to form tube	A11-B08+				
yarns	F01-H03+				

## X

X-ray	
anodes	L03-C01
contrast media	B12-K07
crystallography	C12-K07
emission electrodes	B11-C08G1
films	C11-C08G1
measurement	L03-C02A
medical equipment	G06-D01
papers	K08-A
photographic equipment	A12-V03+
photographic materials	G06-D01
radiotherapy	A12-L+
screens (intensifying)	G06-D01
techniques	K09-B02
techniques, using	G06-A09
electro(in)organic material	G06-D01
therapy or treatment	K08-E
tubes(structural parts)	L03-H04C
Xanflood ®	K08-E02
Xanthan gum	L03-C03
	A03-A+
	A03-A+
	B04-C02D
	C04-C02D
Xanthate, cellulose	A03-A05+
	B04-C02A3
	C04-C02A3
Xanthation of polymer	A10-E24
Xanthene	B06-A03
	C06-A03
	E06-A03
Xanthine	B04-A06
	C04-A06
Xanthogenate (organic)	B10-A11A
	C10-A11A
	E10-A11A
	E10-A11A1
	E10-A11A2
Xanthomycin	B02-X
	C02-X
Xenon (element)	B05-B02C
	C05-B02C
	E31-J
Xenon compounds	B05-B02C
inorganic	C05-B02C
organic	E31-J
Xerography	E05-K
Xylene	A12-L05+
condensant	E10-J02B
solvent for polymers	A01-E
Xylene diamine	A08-S02
condensant	E10-B01A
Xylene- formaldehyde resin	A01-E05
Xylenol	A05-J08
condensant	A01-E13

Xylenol- formaldehyde resin	A05-C03+
Xylenols	E10-E02B
	E10-E02B1
	E10-E02E
	E10-E02E1
Xylok resins	A05-J
Xylylene glycol	E10-E04J1
condensant	A01-E14

## Y

Yarn cleaners	F01-H09
Yarn processes	A11-C05+
blending	F01-F
cabling	F01-H01
carding, combing	F01-F01
crimping, curling of fibres	A11-B02D
	F01-H04
drafting	F01-F02
entangling	F01-H02
finishing	F01-H06+
heat setting	A11-B02C
	F01-H05
increasing adhesion to	
bulk materials	F01-H06B
mechanical finishing	F01-H+
open-end spinning	F01-G05
opening	F01-F03
ring spinning	F01-G01
ringless spinning	F01-G02
sizing	F01-H06A
spinning	A11-B15+
	F01-G+
spinning, automated	
systems	F01-G04
testing	F01-H
winding	A11-C05B
	F01-H03+
Yarns of polymers	A12-S05+
Yeast	B04-F09
	C04-F09
Yeast production	D05-B04
Yoghurt	D03-B14
Yohimbane	B04-A05
	C04-A05
Young's Modulus	A09-A05
Ytterbium compounds	B05-A03B
	C05-A03B
catalysts	N03-A02B
inorganic	E34-E02B
organic	E05-P
Yttrium catalysts	N03-A01
for polymerisation	A02-A06+
Yttrium compounds	B05-A03B
	C05-A03B
inorganic	E34-E01
organic	E05-M
	E05-M03D
Yttrium iron garnets,	
yttrium aluminium garnets,	
YIG, YAG	L03-B02B3
Yttrium oxide	L02-G01C1
production	L02-G12D1



## Z

Zein	A03-C01 B04-B04A4 B04-N01 C04-B04A4 C04-N01	photoconductor pigment	G06-F07A A08-E02 G01-A02
Zeolites	E31-P02 L02-G01A	production	E35-C01 L02-G12C
Detergent use	D11-B11 D11-B11A	use	E35-C02
Zeolite catalysts		Zinc selenide	L03-A03B
aluminium free	N06-B02	Zinc stearate lubricant for polymer	A08-M03+
high silica	N06-B02	Zinc sulfate	E35-C03
support	A02-D	Zinc sulphide	E35-C
with alkali(ne earth)			L03-A03A
metals only	N06-A	pigment	A08-E02 G01-A02
with metals, not		Zip ® fasteners	A12-C03 F04-C04 F02-F01A1
alkali(ne earth)	N06-B	sewing of	
with metals, not		Zirconium	
alkaline(ne earth)	N06-B01	alloys	M26-B06
Zeolite filler/reinforcing agents	A08-R06B	production	M25-G28
Zero-twist process	F01-H02	Zirconium catalysts	N03-B N03-B02
Ziegler(-Natta) catalysts	A02-A06+	for polymerisation	A02-A06+
Zinc		Zirconium compounds	B05-A03B C05-A03B
alloys	M26-B07	inorganic	E35-L
catalysts	N03-F01	organic	E05-M E05-M01
electrodeposition	M11-A04	Zirconium oxide	L02-G01D
production	M25-G27	production	L02-G12B
Zinc borate flame retardant	A08-F	Zone refining in semiconductor crystals	L04-B02
Zinc carboxylates	E05-L03C	Zymogen	B04-B02C B04-L09 C04-B02C C04-L09
Zinc compounds	B05-A03A4 C05-A03A4		
carboxylates	E05-L03D		
halide	E35-C03		
inorganic (other than halide, hydroxide, oxide, sulfate)	E35-C04		
organic	E05-L03		
organic, excluding pigments/fillers	G01-A02		
Zinc dialkyldithio-carbamate			
accelerators for cross- linking agents	A08-C03 A08-D05		
Zinc finger proteins	B04-N11 C04-N11 D05-H17A7 D05-H17B7		
Zinc hydroxide			
production	E35-C01		
use	E35-C02		
Zinc oxide	E35-C L02-G01F L04-A03D		
activators for crosslinking agents	A08-C02 A08-D05		
electrodes for batteries	L03-E01B6		
glass composition	L01-A03C2		



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